



# ERVG MAX

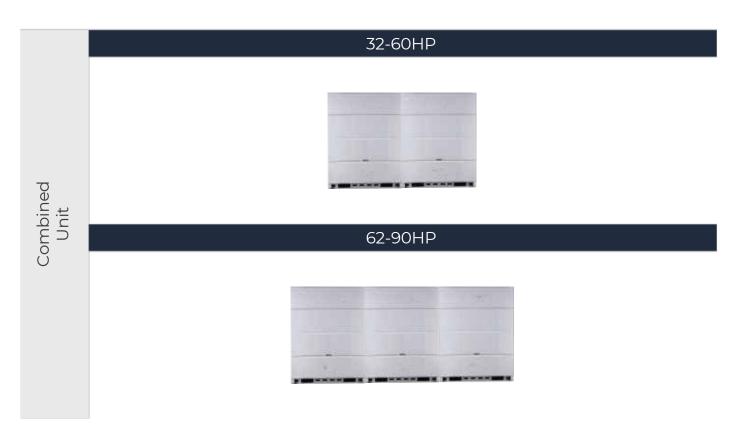


High Efficiency VRF System
Cooling Only

# **Outdoor Unit Lineup**

# ERVc (Combinable series)

	8-20HP	22-30HP
Single Unit		







Original communication bus chip greatly simplifies installation and saves installation costs.



#### **Benefits**



Flexible installation



Low installation cost



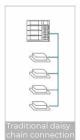
High reliability

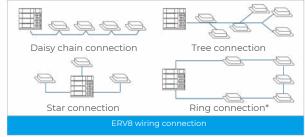


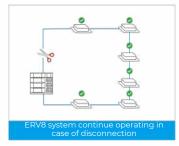
HyperLink communication technology supports any wiring pattern rather than just daisy chain connection, reducing installation costs and the possibility of an incorrect connection. It has stronger anti-interference ability, achieving a communication distance of up to 2000m.

#### **Arbitrary Topology Communication**

In addition to the traditional daisy chain connection, the communication wire supports tree connection, star connection, ring connection and so on. The wring is flexible, which greatly reduces installation costs and has no possibility of wrong connection on site.



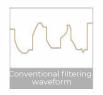




\*In ring connection, the communication wire must be connected polarized (M1 port to M1 port and M2 port to M2 port).

#### Super Anti-interference Capability

Special waveform restoration technology enhances anti-interference performance for more stable communication.











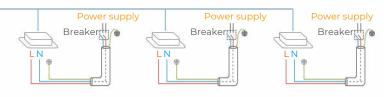
Anti-interference of radio

Anti-interference Anti-interference of high voltage

of equipment

#### Flexible Power Supply for Indoor Units

HyerLink 's unique communication method allows the indoor units to be powered not only by a uniform power supply, but also by individual and zone power supplies, making it particularly suitable for each shop in a large complex building, which can independently power on and off its own indoor units.



# 

IP55 fully enclosed electric control box provides all-round protection for internal electronic components, greatly improving system RELIABILITY.



Fully enclosed electronic components are isolated from the external environment to protect against corrosion, sand, humidity, snowstorms and other harsh conditions, and prevent small animals and insects from entering the chamber. This protects internal electronic devices and improves the overall environmental tolerance.

#### All Microchannel Refrigerant Cooling

All electronic components including inverter module, filter module and power module are cooled by specially designed microchannel refrigerant to ensure that the electronic components work in the best temperature range.



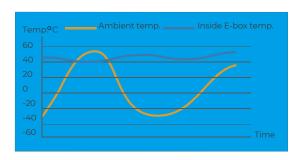
#### Built-in Circulating Fan

The built-in circulating fan accelerates the air flow inside the chamber, and the heat exchange is more sufficient to ensure the consistent ambient temperature inside the chamber.



#### 5 High Precision Temperature Sensors

5 high precision temperature sensors are used to accurately monitor the operation state of electronic control under various conditions to ensure that the internal temperature of the chamber is always kept within a stable range.



#### SuperSense



The status of the refrigerant can be determined throughout the process, ensuring high RELIABILITY and COMFORT.





Up to 17 sensors are distributed throughout the refrigerant system, and the status of the refrigerant can be determined throughout the process, ensuring stable operation. At the same time, combined with the digital twin technology of the refrigerant system, a virtual sensor can be created in the event of a physical sensor failure, so that the system does not shut down in the event of a sensor failure, ensuring comfort.

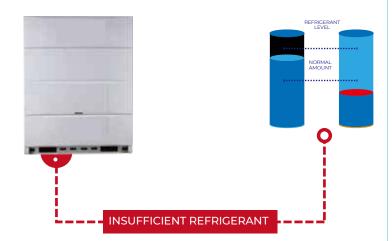
#### **Complete Sensors**

The ERVc series VRF is equipped with up to 17 condition monitoring sensors, combined with built-in data models of compressors, heat exchangers and throttling components, which can analyze the operation data in real time and monitor the refrigerant condition of the system.



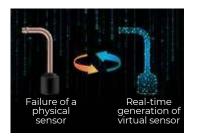
#### Refrigerant Amount Diagnosis

Thanks to the complete sensors, the refrigerant running state is clearly visible, so as to accurately diagnose the amount of refrigerant.



#### Virtual Sensor Backup

In the event of a sensor failure, other sensors can automatically simulate a virtual backup sensor, so that the VRF system can continue to operate without stopping.



#### **Z** ERVc ETA

ETA is the abbreviation of Evaporating Temperature Alteration. Further upgraded ETA technology to maximize ENERGY SAVING.











Built-in professional operation and maintenance algorithm, so that the annual operation energy efficiency of each set of systems is increased by more than 28%.



Variable Refrigerant Flow

# STEP 1: Architectural space feature recognition

The indoor unit automatically recognizes the size of the building space and the effectiveness of the insulation according to the rate of temperature drop.







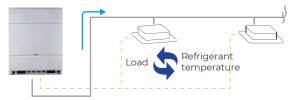
Automatic calculation of the building load and the required refrigerant quantity based on the sensor parameters.



Variable Refrigerant Temperature

# **STEP 2:** System refrigerant temperature determination

The system automatically matches the evaporating temperature to the room load to maximize comfort and energy efficiency.



Automatic matching of the corresponding refrigerant temperature to the load.



Variable Indoor Airflow

# **STEP 3:** Adaptive indoor airflow and refrigerant flow

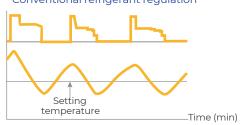
Each indoor unit automatically adjusts the corresponding indoor airflow and refrigerant flow according to the evaporating temperature, enabling precise temperature control.



Automatic matching of the corresponding indoor airflow to the load and refrigerant temperature.

#### Conventional refrigerant regulation

Compressor output Indoor temperature



#### ERVc refrigerant regulation

Compressor output

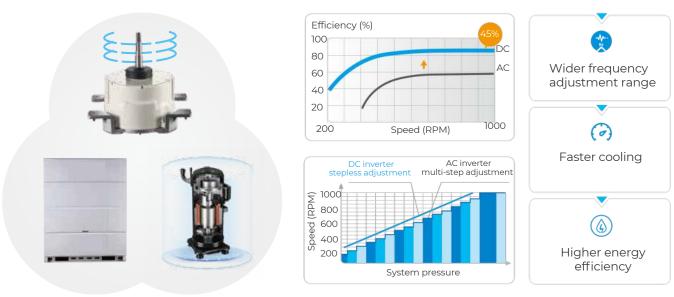
Indoor temperature

Setting temperature

#### Full DC Inverter Technology

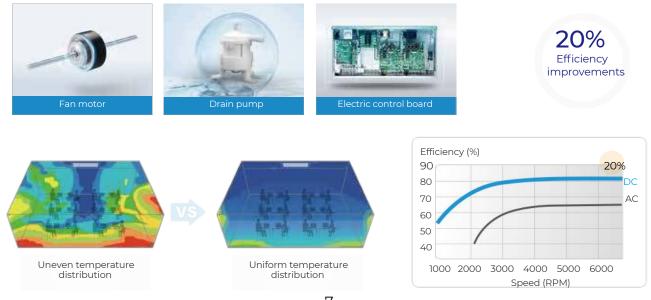
#### Full DC Inverter for Outdoor Components

The ERVc Series VRF uses full DC inverter compressor and fan motor to achieve high precision stepless speed adjustment according to system operation, and ensures that the system is always in optimum condition, operating more efficiently, more consistently and with less noise.



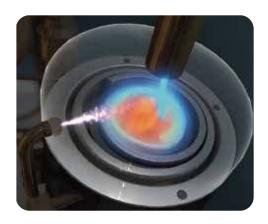
#### Full DC Inverter for Indoor Components

All power devices such as indoor fan motor, drain pump and electric control board are fully DC, which increases electrical efficiency by 20% and results in more accurate temperature control, a more constant indoor temperature and higher energy efficiency.



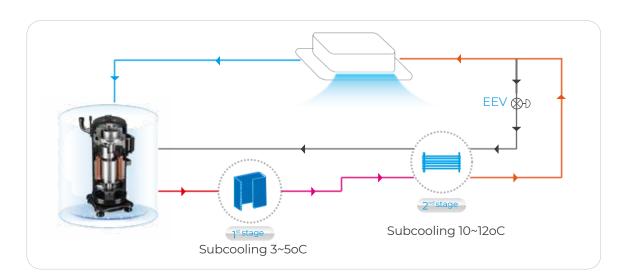
#### Enhanced Vapor Injection (EVI) Compressor

The enhanced vapor injection DC inverter compressor increases refrigerant circulation and improves cooling capacity.



#### Advanced Subcooling Technology

The ERVc Series VRF uses a micro-channel heat exchanger to further cool the refrigerant and the refrigerant system can achieve 15°C refrigerant subcooling, which can further improve the refrigerant heat transfer efficiency while reducing the sound of refrigerant flow.



#### Low Standby Power Consumption

Compared to the standby power consumption of traditional VRF of about 30W, the ERVc Series VRF uses optimized control scheme to further reduce standby power consumption to as low as 3.5W.



#### 60-step Energy Management

For projects with temporary electricity supply restrictions, the outdoor unit supports 60-step energy management which can be set to output 40-100% capacity in 1% increments. It prevents tripping during conditions of restricted electricity supply and allows the system to continue to operate.





#### Quadruple Backup

In two fans, two compressors and multiple units, one can run in backup for another. Additionally, the ERVc series VRF generates a corresponding virtual sensor for each physical sensor by means of a digital algorithm, which serves as a backup for each other, ensuring no shutdown in the event of a fault, and further guaranteeing comfort.



#### **Unit Backup**

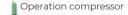
In a multi-unit system, the different units act as a backup to each other, ensuring that the system can continue to operate if one unit fails.



Intelligent load-bearing between units during normal operation



Continue operating in case of failure of one unit





#### Fan Backup

In unit with two fans, the two fans act as a backup to each other, ensuring that the system can continue to operate if one fan fails.



In normal operation, each fan runs on demand



Automatic backup operation of another fan in case of failure of one fan







#### Compressor Backup

In unit with two compressors, the two compressors act as a backup to each other, ensuring that the system can continue to operate if one compressor fails.



Intelligent load-bearing between compressors during normal operation



Continue operating in case of failure of one compressor



#### Sensor Backup



Through digital algorithms, each physical sensor generates a corresponding virtual sensor that acts as a backup to each other, ensuring that the failure of one sensor does not affect the normal operation of the system.



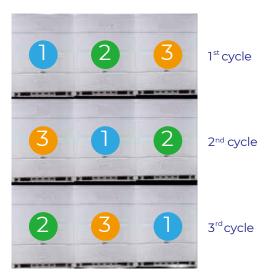
Automatic backup operation of the corresponding virtual sensor in case of failure of one physical sensor

#### Double Duty Cycling



#### **Unit Duty Cycling**

In a multi-unit system, duty cycling equalizes the running time of each outdoor unit, significantly extending unit lifespan.



Note: The duty cycling sequence shown in the figure is only a schematic reference. The actual duty cycling sequence is not a fixed sequence. Please refer to the technical manual for specific rotation rules.

### Compressor Duty Cycling

In units with two compressors, duty cycling equalizes the running time of each compressor, significantly extending compressor lifespan.





Compressor start-up sequence

#### ShieldBox

IP55 fully enclosed electric control box provides all-round protection for internal electronic components, greatly improving system reliability.



#### SuperSense

ERVc Series VRF uses up to 17 sensors for each outdoor unit and 4 sensors for each indoor unit. The operating status of the system refrigerant is clearly visible, which can achieve intelligent analysis of operation parameters, intelligent error diagnosis and forecasting, and visualized energy saving.



#### Precise Oil Control

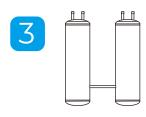
Four stages of oil control technology ensure all outdoor compressor oil is always kept at a safe level, eliminating any compressor oil shortage problems.



Compressor internal oil separation.



High-efficiency centrifugal oil separator (with separation efficiency of up to 99%) ensures that oil is separated from the discharge gas and returned to the compressors in a timely fashion.



Oil balance pipes between gas-liquid separator ensure even oil distribution to keep compressors running normally.



The automatic oil return program determines the oil return through the running time and the oil discharge amount, enabling precise oil return.

#### Heavy Anti-corrosion Protection\*

Standard outdoor units are given anti-corrosion treatment for non-extreme conditions and can also be customized with heavy anti-corrosion treatment on main components for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful life. The integrity of the anti-corrosion treatment is ensured by subjecting major components and parts to salt mist testing, moisture and heating testing and light aging testing.



<sup>\*</sup>Heavy anti-corrosion treatment is available as a customization option.

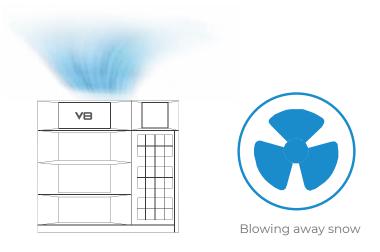
#### Auto Dust-clean Function

The innovatively designed dust-clean function enables the outdoor unit to prevent the dust by itself.



# Auto Snow-blowing Function

The innovatively designed auto snow-blowing function enables the outdoor unit to prevent the accumulation of snow by itself.

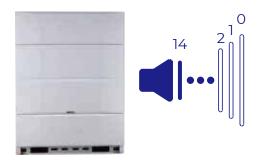






#### Advanced Silent Technology

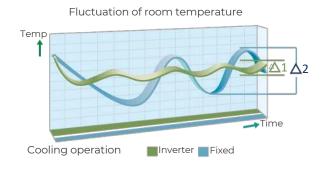
15-step silent mode provide more freedom and convenience to match the customer needs.

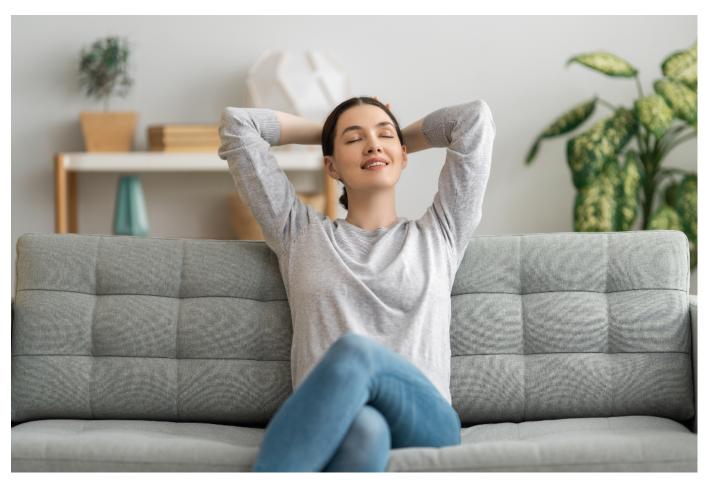


15 silent options

#### Fast Cooling

Thanks to advanced full DC inverter technology, the system can quickly reach full load output, shorten cooling time, reduce temperature fluctuations, and create a more comfortable living environment.







#### Wide Capacity Range

The capacity of one ERVc Series VRF system is from 8HP to 90HP with up to 3 units combined, perfectly suited for small to large buildings.



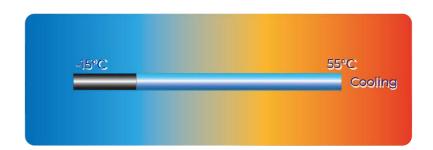






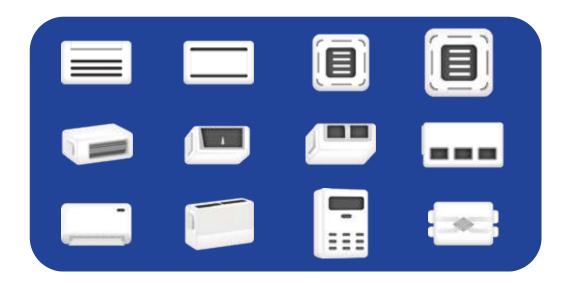
#### Wide Operation Range

Thanks to the refrigerant cooling technology, the ERVc Series VRF can operate stably in a temperature range as low as -15°C and as high as 55°C.



#### Wide Range of Indoor Units

The ERVc Series VRF offers types of over 100 models of indoor units to meet different scenarios of applications such as offices, shopping malls, hotels, airports, schools, hospitals, etc.



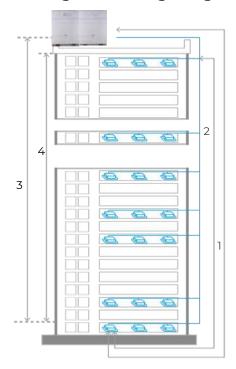
#### Long Piping Capability

The ERVc system can support a total piping length of up to 1100m, an installation height difference of up to 110m between indoor and outdoor units, and up to 40m between indoor units, making the ERVc Series VRF adaptable to a wide range of building designs.

Total piping length: 1100m

- 1. Longest piping length actual (equivalent): 220(260)m
- 2. Longest piping length after first branch: 40/120\*m
- 3. Level difference between IDUs and ODU ODU above (below): **110(110)m**
- 4. Level difference between IDUs: 40m

\*The longest length after first branch is 40m as a standard but can be extended to up to 120m under certain conditions. Please contact your local dealer for further information.



# Easy Installation and Service

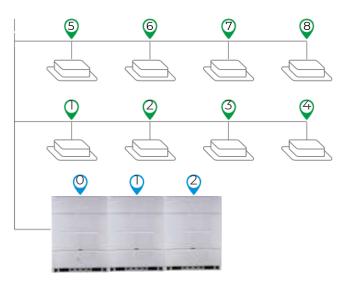
#### Free Wiring

HyperLink communication technology supports any wiring pattern rather than just daisy chain connection, reducing the installation cost and the possibility of incorrect connection. It has stronger anti-interference ability, achieving a communication distance of up to 2000m.



#### Auto Addressing

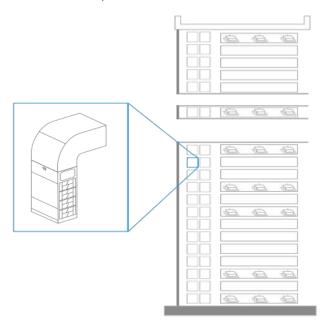
Addresses for all indoor units and combined outdoor units can be assigned automatically by the ERVc system, further simplifying installation.



#### External Static Pressure up to 120Pa\*

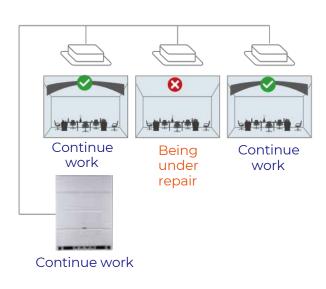
The static pressure of the outdoor unit can be up to 120Pa which facilitates installation of the unit on each floor of high-rise buildings or on balconies.

\*External static pressure above 20Pa is available as a customization option.



#### Maintenance Mode

The maintenance mode allows the shutdown of some indoor units without shutting down the whole VRF system, and it can be activated on site during the maintenance period as the remaining indoor units continue to operate.

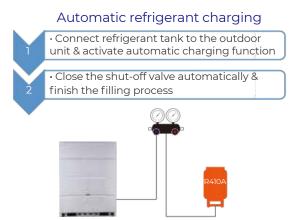


#### Automatic Refrigerant Charging\*

Compared to manual refrigerant charging, automatic refrigerant charging greatly simplifies the process, making installation and maintenance easier and more efficient.

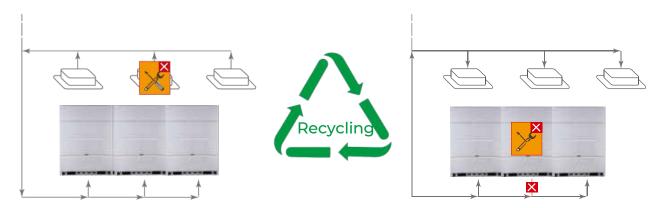
# Manual refrigerant charging Calculate additional refrigerant quantity Connect refrigerant tank to the outdoor unit & start the filling process Observe the weight scale to check the refrigerant charge Close the shut-off valve manually & finish the filling process

<sup>\*</sup>This function is available as a customization option.



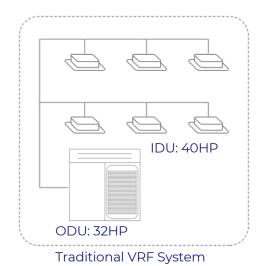
#### Automatic Refrigerant Recycling

When an indoor unit fails, the refrigerant can be recycled into the outdoor units. When part of the outdoor unit fails, the refrigerant can be recycled into the indoor units and the normal outdoor unit. Two types of refrigerant recycling make the maintenance process easier and more efficient.



#### Wide Combination Ratio\*

Compared to traditional VRF with combination ratio of 50-130%, the ERVc Series VRF can be extended to 50-200%, and the wider combination ratio allows for more flexible system configuration. The larger combination ratio can be applied to long-term part-load operation scenarios, allowing for further reduction in installation costs.



ODU: 20HP

ERVc Series VRF System

<sup>\*</sup>Combination ratio over 130% is available as a customization option.

HP		8	10	12	
Model name	•	-	ERVc-077	ERVc-096	ERVc-114
Power supply	y	V/ph/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
		kW	22.4	28	33.5
Carallia a	Capacity	kBtu/h	76.4	95.5	114.2
Cooling	Power input	kW	4.8	6.8	8.8
	COP		4.67	4.12	3.81
	Total capacity		50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit
Connected indoor unit	, ,	:4	capacity	capacity	capacity
ndoor unit   Maximum quantity   Type		13	16	19	
Compressor Quantity			Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	_		1	DC	1
	Type		DC		DC
Fan	Quantity		0.20 (1-fh)	1 0-20 (default)	0-20 (default)
	Static pressure	Pa	0-20 (default) 20-120 (customized)	20-120 (derauit) 20-120 (customized)	20-120 (customized)
	Airflow rate	m³/h	12600	12600	13500
Refrigerant	Туре		R410A	R410A	R410A
cmgcrant	Factory charge	kg	7.4	7.4	7.4
Pipe	Liquid pipe	mm	Ф12.7	Ф12.7	Ф12.7
connections	Gas pipe	mm	Ф25.4	Ф25.4	Ф25.4
Sound pressu	ure level	dB(A)	57	58	60
Net dimension	ons (W×H×D)	mm	940×1760×825	940×1760×825	940×1760×825
Packed dime	ensions (W×H×D)	mm	1010×1945×890	1010×1945×890	1010×1945×890
Net weight		kg	185	185	185
Gross weight		kg	200	200	200
Ambient temp. operation C		°C	-15 to 55	-15 to 55	-15 to 55
HP			14	16	18
Model name			ERVc-137	ERVc-154	ERVc-171
Power supply	y	V/ph/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
		kW	40	45	50
	Capacity	kBtu/h	136.4	153.5	170.5
Cooling	Power input	kW	9.7	12.3	13.4
	COP		4.12	3.66	3.73
Connected	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
indoor unit	Maximum quant	ity	23	26	29
C	Туре		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
Compressor	Quantity		1	1	1
	Туре		DC	DC	DC
Fan	Quantity		1	1	1
raii	Static pressure	Pa	0-20 (default) 20-120 (customized)	0-20 (default) 20-120 (customized)	0-20 (default) 20-120 (customized)
	Airflow rate	m³/h	15600	15600	16500
Refrigerant	Туре		R410A	R410A	R410A
. tem gerant	Factory charge	kg	8.4	8.4	10
Pipe	Liquid pipe	mm	Ф15.9	Ф15.9	Ф15.9
connections	Gas pipe	mm	Ф28.6	Ф28.6	Ф28.6
Sound pressi	ure level	dB(A)	60	61	62
Net dimension	ons (W×H×D)	mm	940×1760×825	940×1760×825	940×1760×825
Packed dime	ensions (W×H×D)	mm	1010×1945×890	1010×1945×890	1010×1945×890
Net weight		kg	200	200	212
Gross weight		kg	215	215	232
Ambient ten	np. operation	°C	-15 to 55	-15 to 55	-15 to 55
range (Coolir					

- Notes:

   Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level di erence.

   Diameters given are those of the unit's stop valves.

   Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			20	22	24
Model name			ERVc-191	ERVc-210	ERVc-230
Power supply V/ph/Hz			380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
	C it	kW	56	61.5	67
	Capacity	kBtu/h	191.0	209.7	228.5
Cooling	Power input	kW	17.4	17.3	19.0
	COP		3.22	3.55	3.53
Connected Total capacity			50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
indoor unit	Maximum quantity		33	36	39
Compressor Type Quantity			Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
			1	1	1
	Туре		DC	DC	DC
	Quantity		1	2	2
Fan	Static pressure	Pa	0-20 (default) 20-120 (customized)	0-20 (default) 20-120 (customized)	0-20 (default) 20-120 (customized)
	Airflow rate	m³/h	16500	21500	21500
D 6: .	Туре	•	R410A	R410A	R410A
Refrigerant	Factory charge	kg	10	12.8	12.8
Pipe	Liquid pipe	mm	<u>π10</u> Φ15.9	Φ19.1	Ф19.1
connections	Gas pipe		· · · · · · · · · · · · · · · · · · ·		Ф31.8
Called - Line - Line		mm	Ф28.6	Ф31.8	φ31.8 64
Sound pressur Net dimension		dB(A)	63	63	1340×1760×825
	, ,	mm	940×1760×825	1340×1760×825	
	nsions (W×H×D)	mm	1010×1945×890	1410×1945×890	1410×1945×890
Net weight		kg	225	260	260
Gross weight		kg	245	285	285
Ambient temp range (Cooling		°C	-15 to 55	-15 to 55	-15 to 55
НР			26	28	30
Model name			ERVc-250	ERVc-270	ERVc-290
Power supply		V/ph/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
		kW	73	78.5	85
	Capacity	kBtu/h	248.9	267.7	289.9
Cooling	Power input	kW	19.4	22.3	26.4
	COP		3.76	3.52	3.22
Connected	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
indoor unit	Maximum quanti	ity	43	46	50
	Туре		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
Compressor L	Quantity		2	2	2
	Туре		DC	DC	DC
				DC	2
Fan	Quantity		2	2	
Fan -	Quantity Static pressure	Pa	2 0-20 (default) 20-120 (customized)	0-20 (default)	0-20 (default) 20-120 (customized)
Fan		Pa m³/h		<del>-</del>	0-20 (default) 20-120 (customized)
Fan	Static pressure		0-20 (default) 20-120 (customized)	0-20 (default) 20-120 (customized)	0-20 (default) 20-120 (customized) 22000
Fan	Static pressure Airflow rate		0-20 (default) 20-120 (customized) 22000 R410A	0-20 (default) 20-120 (customized) 22000 R410A	0-20 (default) 20-120 (customized)
Fan Refrigerant	Static pressure Airflow rate Type Factory charge	m³/h	0-20 (default) 20-120 (customized) 22000 R410A 15.4	0-20 (default) 20-120 (customized) 22000 R410A 15.4	0-20 (default) 20-120 (customized) 22000 R410A 15.4
Refrigerant -	Static pressure Airflow rate Type Factory charge Liquid pipe	m³/h	0-20 (default) 20-120 (customized) 22000 R410A 15.4 Φ22.2	0-20 (default) 20-120 (customized) 22000 R410A 15.4 Φ22.2	0-20 (default) 20-120 (customized) 22000 R410A 15.4 Φ22.2
Refrigerant  Pipe connections	Static pressure Airflow rate Type Factory charge Liquid pipe Gas pipe	kg mm mm	0-20 (default) 20-120 (customized) 22000 R410A 15.4 Φ22.2 Φ31.8	0-20 (default) 20-120 (customized) 22000 R410A 15.4 Ф22.2	0-20 (default) 20-120 (customized) 22000 R410A 15.4 Φ22.2 Φ31.8
Refrigerant  Pipe connections  Sound pressur	Static pressure Airflow rate Type Factory charge Liquid pipe Gas pipe re level	kg mm mm dB(A)	0-20 (default) 20-120 (customized) 22000 R410A 15.4 Φ22.2 Φ31.8 64	0-20 (default) 20-120 (customized) 22000 R410A 15.4 Φ22.2 Φ31.8	0-20 (default) 20-120 (customized) 22000 R410A 15.4 Φ22.2 Φ31.8 64
Refrigerant  Pipe connections  Sound pressur Net dimension	Static pressure Airflow rate Type Factory charge Liquid pipe Gas pipe re level ns (W×H×D)	kg mm mm dB(A) mm	0-20 (default) 20-120 (customized) 22000 R410A 15.4 Φ22.2 Φ31.8 64 1340×1760×825	0-20 (default) 20-120 (customized) 22000 R410A 15.4	0-20 (default) 20-120 (customized) 22000 R410A 15.4  Ф22.2  Ф31.8 64 1340×1760×825
Refrigerant  Pipe connections  Sound pressur  Net dimension  Packed dimen	Static pressure Airflow rate Type Factory charge Liquid pipe Gas pipe re level	kg mm mm dB(A) mm	0-20 (default) 20-120 (customized)  22000  R410A  15.4  Φ22.2  Φ31.8  64  1340×1760×825  1410×1945×890	0-20 (default) 20-120 (customized) 22000 R410A 15.4 Φ22.2 Φ31.8 64 1340×1760×825 1410×1945×890	0-20 (default) 20-120 (customized)  22000  R410A  15.4  Φ22.2  Φ31.8  64  1340×1760×825  1410×1945×890
Refrigerant Pipe connections Sound pressur Net dimension Packed dimen Net weight	Static pressure Airflow rate Type Factory charge Liquid pipe Gas pipe re level ns (W×H×D)	kg mm mm dB(A) mm kg	0-20 (default) 20-120 (customized) 22000 R410A 15.4 Φ22.2 Φ31.8 64 1340×1760×825 1410×1945×890 325	0-20 (default) 20-120 (customized) 22000 R410A 15.4 Φ22.2 Φ31.8 64 1340×1760×825 1410×1945×890 325	0-20 (default) 20-120 (customized)  22000  R410A  15.4  Φ22.2  Φ31.8  64  1340×1760×825  1410×1945×890  325
Refrigerant  Pipe connections  Sound pressur  Net dimension  Packed dimen	Static pressure Airflow rate Type Factory charge Liquid pipe Gas pipe re level ns (W×H×D) sions (W×H×D)	kg mm mm dB(A) mm	0-20 (default) 20-120 (customized)  22000  R410A  15.4  Φ22.2  Φ31.8  64  1340×1760×825  1410×1945×890	0-20 (default) 20-120 (customized) 22000 R410A 15.4 Φ22.2 Φ31.8 64 1340×1760×825 1410×1945×890	0-20 (default) 20-120 (customized)  22000  R410A  15.4  Φ22.2  Φ31.8  64  1340×1760×825  1410×1945×890

- Notes:

   Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level di erence.

   Diameters given are those of the unit's stop valves.

   Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP		32	34	36	
Model name			ERVc-308	ERVc-328	ERVc-345
Combination ty	pe		16HP+16HP	14HP+20HP	16HP+20HP
Power supply		V/ph/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
		kW	90.0	96.0	101.0
	Capacity	kBtu/h	307.0	327.4	344.5
Cooling	Power input	kW	24.6	27.1	29.7
	СОР		3.66	3.54	3.40
Connected Total capacity indoor unit		50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit	
			capacity	capacity 56	capacity
Indoor arm	Maximum quantity		53 Scroll DC inverter		59
Compressor	npressor Type			Scroll DC inverter	Scroll DC inverter
	Quantity		2		2
	Туре		DC	DC	DC
   Fan	Quantity	I	2	2	2
T GIT	Static pressure Pa		0-20 (default) 20-120 (customized)	0-20 (default) 20-120 (customized)	0-20 (default) 20-120 (customized)
	Airflow rate	m³/h	31200	32100	32100
- c:	Туре		R410A	R410A	R410A
Refrigerant	Factory charge	kg	8.4×2	8.4+10	8.4+10
Pipe	Liquid pipe	mm	Ф19.1	Ф19.1	Ф19.1
connections	Gas pipe	mm	Ф31.8	Ф31.8	Ф38.1
Sound pressure		dB(A)	64	65	65
Net dimensions		mm	(940×1760×825)×2	(940×1760×825)×2	(940×1760×825)×2
Packed dimensi		mm	(1010×1945×890)×2	(1010×1945×890)×2	(1010×1945×890)×2
Net weight	,	kg	200×2	,	200+225
Gross weight		kg	215×2	200+225 215+245	215+245
Ambient temp.	operation		213^2		-15 to 55
range (Cooling)	Орегаціон	°C	-15 to 55	-15 to 55	
HP			38	40	42
Model name		_	ERVc-362	ERVc-384	ERVc-401
Combination	type		18HP+20HP	16HP+24HP	18HP+24HP
Power supply		V/ph/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
	Capacity	kW	106.0	112.0	117.0
C 1:	Сараспу	kBtu/h	361.5	382.0	399.0
Cooling	Power input	kW	30.8	31.3	32.4
	COP		3.44	3.58	3.61
Connected	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
indoor unit	Maximum quar	ntity	62	64	64
6	Туре		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
Compressor	Quantity		2	2	2
	Туре		DC	DC	DC
	Quantity		2	3	3
Fan	Static pressure	Pa	0-20 (default) 20-120 (customized)	0-20 (default) 20-120 (customized)	0-20 (default) 20-120 (customized)
	Airflow rate	m³/h	33000	37100	38000
Defuis	Туре	1	R410A	R410A	R410A
Refrigerant	Factory charge	kg	10×2	8.4+12.8	10+12.8
Pipe	Liquid pipe	mm	Ф19.1	Ф19.1	Ф19.1
connections	Gas pipe	mm	Ф38.1	Ф38.1	Ф38.1
Sound pressu		dB(A)	66	66	66
Net dimensio		mm	(940×1760×825)×2	(940×1760×825)+ (1340×1760×825)	(940×1760×825)+ (1340×1760×825)
Packed dimer	nsions (W×H×D)	mm	(1010×1945×890)×2	(1010×1945×890+ (1410×1945×890)	(1010×1945×890)+ (1410×1945×890)
Net weight		kg	212+225	200+260	212+260
Gross weight		kg	232+245	215+285	232+285
Ambient tem	p. operation	°C	-15 to 55	-15 to 55	-15 to 55
range (Coolin	91		1	1	

- Notes:

  Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level di erence.

  Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.

  Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			44	46	48
Model name	-	-	ERVc-421	ERVc-444	ERVc-461
Combination	typo			2	18HP+30HP
	31	\ //   /	20HP+24HP 380-415/3/50(60)	16HP+30HP	380-415/3/50(60)
Power supply	<u> </u>	V/ph/Hz kW	· · ·	380-415/3/50(60)	135.0
	Capacity	kBtu/h	123.0	130.0	460.4
Cooling	D	· ·	419.5	443.4	39.8
	Power input COP	kW	36.4	38.7	
	1		3.38 50-130% of outdoor unit	3.36 50-130% of outdoor unit	3.39 50-130% of outdoor unit
Connected	Total capacity		capacity	capacity	capacity
indoor unit	Maximum quantity		64	64	64
Compressor			Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		2	3	3
	Туре		DC	DC	DC
Fan	Quantity		3	3	3
1 011	Static pressure	Pa	0-20 (default) 20-120 (customized)	0-20 (default) 20-120 (customized)	0-20 (default) 20-120 (customized)
	Airflow rate	m³/h	38000	37600	38500
Deficience	Туре		R410A	R410A	R410A
Refrigerant	Factory charge	kg	10+12.8	8.4+15.4	10+15.4
Pipe .	Liquid pipe	mm	Ф19.1	Ф19.1	Ф19.1
connections	Gas pipe	mm	Ф38.1	Ф38.1	Ф38.1
Sound pressu	re level	dB(A)	67	66	66
Net dimensio	ns (W×H×D)	mm	(940×1760×825)+	(940×1760×825)+	(940×1760×825)+
			(1340×1760×825) (1010×1945×890)+	(1340×1760×825) (1010×1945×890)+	(1340×1760×825) (1010×1945×890)+
Packed dimei	nsions (W×H×D)	mm	`(1410×1945×89Ó)	`(1410×1945×89Ó)	`(1410×1945×89Ó)
Net weight		kg	225+260	200+325	212+325
Gross weight		kg	245+285 215+350		232+350
Ambient tem range (Coolin		°C	-15 to 55	-15 to 55	-15 to 55
HP			50	52	54
Model name					
Model name			ERVc-481	ERVc-500	ERVc-520
Model name Combination	type		ERVc-481 20HP+30HP	ERVc-500 22HP+30HP	ERVc-520 24HP+30HP
		V/ph/Hz			
Combination	,	V/ph/Hz kW	20HP+30HP	22HP+30HP	24HP+30HP 380-415/3/50(60) 152.0
Combination Power supply		-	20HP+30HP 380-415/3/50(60)	22HP+30HP 380-415/3/50(60)	24HP+30HP 380-415/3/50(60)
Combination	,	kW	20HP+30HP 380-415/3/50(60) 141.0	22HP+30HP 380-415/3/50(60) 146.5	24HP+30HP 380-415/3/50(60) 152.0
Combination Power supply	Capacity	kW kBtu/h	20HP+30HP 380-415/3/50(60) 141.0 480.9	22HP+30HP 380-415/3/50(60) 146.5 499.6	24HP+30HP 380-415/3/50(60) 152.0 518.4
Combination Power supply Cooling Connected	Capacity Power input	kW kBtu/h	20HP+30HP 380-415/3/50(60) 141.0 480.9 43.8	22HP+30HP 380-415/3/50(60) 146.5 499.6 43.7	24HP+30HP 380-415/3/50(60) 152.0 518.4 45.4
Combination Power supply Cooling	Capacity Power input COP	kW kBtu/h kW	20HP+30HP 380-415/3/50(60) 141.0 480.9 43.8 3.22 50-130% of outdoor unit	22HP+30HP 380-415/3/50(60) 146.5 499.6 43.7 3.35 50-130% of outdoor unit	24HP+30HP 380-415/3/50(60) 152.0 518.4 45.4 3.35 50-130% of outdoor unit
Combination Power supply Cooling Connected indoor unit	Capacity Power input COP Total capacity Maximum quant	kW kBtu/h kW	20HP+30HP 380-415/3/50(60) 141.0 480.9 43.8 3.22 50-130% of outdoor unit capacity	22HP+30HP  380-415/3/50(60)  146.5  499.6  43.7  3.35  50-130% of outdoor unit capacity	24HP+30HP 380-415/3/50(60) 152.0 518.4 45.4 3.35 50-130% of outdoor unit capacity
Combination Power supply Cooling Connected	Capacity Power input COP Total capacity Maximum quant	kW kBtu/h kW	20HP+30HP 380-415/3/50(60) 141.0 480.9 43.8 3.22 50-130% of outdoor unit capacity 64 Scroll DC inverter	22HP+30HP  380-415/3/50(60)  146.5  499.6  43.7  3.35  50-130% of outdoor unit capacity  64  Scroll DC inverter	24HP+30HP 380-415/3/50(60) 152.0 518.4 45.4 3.35 50-130% of outdoor unit capacity 64 Scroll DC inverter
Combination Power supply Cooling Connected indoor unit	Capacity Power input COP Total capacity Maximum quant Type Quantity Type	kW kBtu/h kW	20HP+30HP 380-415/3/50(60) 141.0 480.9 43.8 3.22 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC	22HP+30HP  380-415/3/50(60)  146.5  499.6  43.7  3.35  50-130% of outdoor unit capacity  64  Scroll DC inverter  3  DC	24HP+30HP 380-415/3/50(60) 152.0 518.4 45.4 3.35 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC
Combination Power supply Cooling  Connected indoor unit Compressor	Capacity Power input COP Total capacity Maximum quant Type Quantity	kW kBtu/h kW	20HP+30HP 380-415/3/50(60) 141.0 480.9 43.8 3.22 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 3	22HP+30HP  380-415/3/50(60)  146.5  499.6  43.7  3.35  50-130% of outdoor unit capacity  64  Scroll DC inverter  3  DC  4	24HP+30HP 380-415/3/50(60) 152.0 518.4 45.4 3.35 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 4
Combination Power supply Cooling Connected indoor unit	Capacity Power input COP Total capacity Maximum quant Type Quantity Type	kW kBtu/h kW	20HP+30HP 380-415/3/50(60) 141.0 480.9 43.8 3.22 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC	22HP+30HP  380-415/3/50(60)  146.5  499.6  43.7  3.35  50-130% of outdoor unit capacity  64  Scroll DC inverter  3  DC	24HP+30HP 380-415/3/50(60) 152.0 518.4 45.4 3.35 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC
Combination Power supply Cooling  Connected indoor unit Compressor	Capacity Power input COP Total capacity Maximum quant Type Quantity Type Quantity Quantity	kW kBtu/h kW	20HP+30HP 380-415/3/50(60) 141.0 480.9 43.8 3.22 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 3 0-20 (default)	22HP+30HP  380-415/3/50(60)  146.5  499.6  43.7  3.35  50-130% of outdoor unit capacity  64  Scroll DC inverter  3  DC  4  0-20 (default)	24HP+30HP 380-415/3/50(60) 152.0 518.4 45.4 3.35 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 4 0-20 (default)
Combination Power supply Cooling Connected indoor unit Compressor Fan	Capacity Power input COP Total capacity Maximum quant Type Quantity Type Quantity Static pressure	kW kBtu/h kW tity	20HP+30HP 380-415/3/50(60) 141.0 480.9 43.8 3.22 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 3 0-20 (default) 20-120 (customized)	22HP+30HP  380-415/3/50(60)  146.5  499.6  43.7  3.35  50-130% of outdoor unit capacity  64  Scroll DC inverter  3  DC  4  0-20 (default) 20-120 (customized)	24HP+30HP 380-415/3/50(60) 152.0 518.4 45.4 3.35 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 4 0-20 (default) 20-120 (customized)
Combination Power supply Cooling  Connected indoor unit Compressor	Capacity Power input COP Total capacity Maximum quant Type Quantity Type Quantity Static pressure Airflow rate	kW kBtu/h kW tity	20HP+30HP 380-415/3/50(60) 141.0 480.9 43.8 3.22 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 3 0-20 (default) 20-120 (customized) 38500	22HP+30HP  380-415/3/50(60)  146.5  499.6  43.7  3.35  50-130% of outdoor unit capacity  64  Scroll DC inverter  3  DC  4  0-20 (default) 20-120 (customized)  43500	24HP+30HP 380-415/3/50(60) 152.0 518.4 45.4 3.35 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 4 0-20 (default) 20-120 (customized) 43500
Combination Power supply Cooling Connected indoor unit Compressor Fan Refrigerant Pipe	Capacity Power input COP Total capacity Maximum quant Type Quantity Type Quantity Static pressure Airflow rate Type	kW kBtu/h kW tity	20HP+30HP 380-415/3/50(60) 141.0 480.9 43.8 3.22 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 3 0-20 (default) 20-120 (customized) 38500 R410A	22HP+30HP  380-415/3/50(60)  146.5  499.6  43.7  3.35  50-130% of outdoor unit capacity  64  Scroll DC inverter  3  DC  4  0-20 (default) 20-120 (customized)  43500  R410A	24HP+30HP 380-415/3/50(60) 152.0 518.4 45.4 3.35 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 4 0-20 (default) 20-120 (customized) 43500 R410A
Combination Power supply Cooling Connected indoor unit Compressor Fan Refrigerant Pipe connections	Capacity Power input COP Total capacity Maximum quant Type Quantity Type Quantity Static pressure Airflow rate Type Factory charge Liquid pipe Gas pipe	kW kBtu/h kW tity Pa m³/h kg	20HP+30HP 380-415/3/50(60) 141.0 480.9 43.8 3.22 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 3 0-20 (default) 20-120 (customized) 38500 R410A 10+15.4 Ф19.1 Ф38.1	22HP+30HP  380-415/3/50(60)  146.5  499.6  43.7  3.35  50-130% of outdoor unit capacity  64  Scroll DC inverter  3  DC  4  0-20 (default) 20-120 (customized)  43500  R410A  12.8+15.4	24HP+30HP 380-415/3/50(60) 152.0 518.4 45.4 3.35 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 4 0-20 (default) 20-120 (customized) 43500 R410A 12.8+15.4
Combination Power supply Cooling Connected indoor unit Compressor Fan Refrigerant Pipe	Capacity Power input COP Total capacity Maximum quant Type Quantity Type Quantity Static pressure Airflow rate Type Factory charge Liquid pipe Gas pipe	kW kBtu/h kW tity Pa m³/h kg mm	20HP+30HP 380-415/3/50(60) 141.0 480.9 43.8 3.22 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 3 0-20 (default) 20-120 (customized) 38500 R410A 10+15.4 Ф19.1 Ф38.1	22HP+30HP  380-415/3/50(60)  146.5  499.6  43.7  3.35  50-130% of outdoor unit capacity  64  Scroll DC inverter  3  DC  4  0-20 (default) 20-120 (customized)  43500  R410A  12.8+15.4  Ф19.1	24HP+30HP 380-415/3/50(60) 152.0 518.4 45.4 3.35 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 4 0-20 (default) 20-120 (customized) 43500 R410A 12.8+15.4 Ф19.1
Combination Power supply Cooling Connected indoor unit Compressor Fan Refrigerant Pipe connections	Capacity Power input COP Total capacity Maximum quant Type Quantity Type Quantity Static pressure Airflow rate Type Factory charge Liquid pipe Gas pipe re level	kW kBtu/h kW tity Pa mm kg mm	20HP+30HP 380-415/3/50(60) 141.0 480.9 43.8 3.22 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 3 0-20 (default) 20-120 (customized) 38500 R410A 10+15.4 Ф19.1 Ф38.1 67 (940×1760×825)+ (1340×1760×825)	22HP+30HP 380-415/3/50(60) 146.5 499.6 43.7 3.35 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 4 0-20 (default) 20-120 (customized) 43500 R410A 12.8+15.4 Φ19.1 Φ38.1	24HP+30HP 380-415/3/50(60) 152.0 518.4 45.4 3.35 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 4 0-20 (default) 20-120 (customized) 43500 R410A 12.8+15.4 Ф19.1 Ф38.1
Combination Power supply Cooling Connected indoor unit Compressor Fan Refrigerant Pipe connections Sound pressu Net dimensio	Capacity Power input COP Total capacity Maximum quant Type Quantity Type Quantity Static pressure Airflow rate Type Factory charge Liquid pipe Gas pipe re level	kW kBtu/h kW tity Pa m³/h kg mm mm dB(A)	20HP+30HP 380-415/3/50(60) 141.0 480.9 43.8 3.22 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 3 0-20 (default) 20-120 (customized) 38500 R410A 10+15.4 Ф19.1 Ф38.1 67 (940×1760×825)+	22HP+30HP  380-415/3/50(60)  146.5  499.6  43.7  3.35  50-130% of outdoor unit capacity  64  Scroll DC inverter  3  DC  4  0-20 (default) 20-120 (customized)  43500  R410A  12.8+15.4  Ф19.1  Ф38.1  67	24HP+30HP 380-415/3/50(60) 152.0 518.4 45.4 3.35 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 4 0-20 (default) 20-120 (customized) 43500 R410A 12.8+15.4 Ф19.1 Ф38.1
Combination Power supply Cooling Connected indoor unit Compressor Fan Refrigerant Pipe connections Sound pressu Net dimensio	Capacity Power input COP Total capacity Maximum quant Type Quantity Type Quantity Static pressure Airflow rate Type Factory charge Liquid pipe Gas pipe re level ns (W×H×D)	kW kBtu/h kW tity Pa mm dB(A) mm	20HP+30HP 380-415/3/50(60) 141.0 480.9 43.8 3.22 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 3 0-20 (default) 20-120 (customized) 38500 R410A 10+15.4 Ф19.1 Ф38.1 67 (940×1760×825)+ (1340×1760×825) (1010×1945×890)+	22HP+30HP  380-415/3/50(60)  146.5  499.6  43.7  3.35  50-130% of outdoor unit capacity  64  Scroll DC inverter  3  DC  4  0-20 (default) 20-120 (customized)  43500  R410A  12.8+15.4  Ф19.1  Ф38.1  67  (1340×1760×825)×2	24HP+30HP 380-415/3/50(60) 152.0 518.4 45.4 3.35 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 4 0-20 (default) 20-120 (customized) 43500 R410A 12.8+15.4 Ф19.1 Ф38.1 67 (1340×1760×825)×2
Combination Power supply Cooling Connected indoor unit Compressor Fan Refrigerant Pipe connections Sound pressu Net dimensio Packed dimension	Capacity Power input COP Total capacity Maximum quant Type Quantity Type Quantity Static pressure Airflow rate Type Factory charge Liquid pipe Gas pipe re level ns (W×H×D)	kW kBtu/h kW tity Pa mm mm dB(A) mm mm	20HP+30HP 380-415/3/50(60) 141.0 480.9 43.8 3.22 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 3 0-20 (default) 20-120 (customized) 38500 R410A 10+15.4 Ф19.1 Ф38.1 67 (940×1760×825)+ (1340×1760×825) (1010×1945×890)+ (1410×1945×890)	22HP+30HP  380-415/3/50(60)  146.5  499.6  43.7  3.35  50-130% of outdoor unit capacity  64  Scroll DC inverter  3  DC  4  0-20 (default) 20-120 (customized)  43500  R410A  12.8+15.4  Ф19.1  Ф38.1  67  (1340×1760×825)×2  (1410×1945×890)×2	24HP+30HP 380-415/3/50(60) 152.0 518.4 45.4 3.35 50-130% of outdoor unit capacity 64 Scroll DC inverter 3 DC 4 0-20 (default) 20-120 (customized) 43500 R410A 12.8+15.4 Φ19.1 Φ38.1 67 (1340×1760×825)×2 (1410×1945×890)×2

- Notes:

  Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level di erence.

  Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.

  Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			56	58	60
Model name		-	ERVc-540	ERVc-560	ERVc-580
Combination	type		26HP+30HP	28HP+30HP	30HP+30HP
Power supply	31	V/ph/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
1 over supply	T	kW	158.0	163.5	170.0
	Capacity	kBtu/h	538.8	557.6	579.8
Cooling	Power input	kW	45.8	48.7	52.8
	COP	I KVV	3.45	3.36	3.22
			50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit
Connected indoor unit	Total capacity		capacity	capacity	capacity
indoor unit	Maximum quan	tity	64	64	64
Compressor			Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		4	4	4
	Туре		DC	DC	DC
Fan	Quantity		4	4	4
raii	Static pressure Pa		0-20 (default) 20-120 (customized)	0-20 (default) 20-120 (customized)	0-20 (default) 20-120 (customized)
	Airflow rate	m³/h	44000	44000	20-120 (custornized) 44000
	Туре	111711	R410A	R410A	R410A
Refrigerant	Factory charge	kg	15.4×2	15.4×2	15.4×2
Dina	Liquid pipe	+ -	Ф19.1	Φ19.1	Ф19.1
Pipe connections	Gas pipe	mm	Φ41.3	Φ41.3	Ф41.3
Sound pressu	1	dB(A)	·	-	67
· · · · · · · · · · · · · · · · · · ·		<u> </u>	67	67	
Net dimensio	ns (W×H×D)	mm	(1340×1760×825)×2	(1340×1760×825)×2	(1340×1760×825)×2
Packed dime	nsions (W×H×D)	mm	(1410×1945×890)×2	(1410×1945×890)×2	(1410×1945×890)×2
Net weight		kg	325×2	325×2	325×2
Gross weight		kg	350×2	350×2	350×2
Ambient tem range (Coolin		°C	-15 to 55	-15 to 55	-15 to 55
НР			62	64	66
Model name	-		ERVc-598	ERVc-618	ERVc-635
Combination	type		16HP+16HP+30HP	14HP+20HP+30HP	16HP+20HP+30HP
Power supply	(	V/ph/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
	Committee	kW	175.0	181.0	186.0
	Capacity	1.5. /	596.9	617.3	634.4
Cooling		kBtu/h			
	Power input	kBtu/h	51.0	53.5	56.1
	Power input	_		53.5 3.38	56.1 3.32
Connected	· · · · · · · · · · · · · · · · · · ·	_	51.0 3.43 50-130% of outdoor unit	3.38 50-130% of outdoor unit	3.32 50-130% of outdoor unit
Connected indoor unit	СОР	kW	51.0 3.43 50-130% of outdoor unit capacity	3.38	3.32
indoor unit	COP Total capacity Maximum quant	kW	51.0 3.43 50-130% of outdoor unit capacity 64	3.38 50-130% of outdoor unit capacity 64	3.32 50-130% of outdoor unit capacity
	COP Total capacity	kW	51.0 3.43 50-130% of outdoor unit capacity	3.38 50-130% of outdoor unit capacity	3.32 50-130% of outdoor unit capacity 64
indoor unit	COP Total capacity Maximum quant Type	kW	51.0 3.43 50-130% of outdoor unit capacity 64 Scroll DC inverter 4	3.38 50-130% of outdoor unit capacity 64 Scroll DC inverter 4	3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter
indoor unit  Compressor	COP Total capacity Maximum quant Type Quantity	kW	51.0 3.43 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC	3.38 50-130% of outdoor unit capacity 64 Scroll DC inverter	3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter
indoor unit	Total capacity  Maximum quant Type Quantity  Type Quantity	kW	51.0 3.43 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default)	3.38 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default)	3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC
indoor unit  Compressor	Total capacity  Maximum quantity  Type Quantity  Type Quantity  Static pressure	tity	51.0 3.43 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized)	3.38 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized)	3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized)
indoor unit  Compressor	Total capacity  Maximum quant Type Quantity  Type Quantity  Static pressure  Airflow rate	kW	51.0 3.43 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 53200	3.38  50-130% of outdoor unit capacity  64  Scroll DC inverter  4  DC  4  0-20 (default) 20-120 (customized)  54100	3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 54100
indoor unit  Compressor	Total capacity  Maximum quant Type Quantity  Type Quantity  Static pressure  Airflow rate  Type	tity Pa m³/h	51.0 3.43 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 53200 R410A	3.38  50-130% of outdoor unit capacity  64  Scroll DC inverter  4  DC  4  0-20 (default) 20-120 (customized)  54100  R410A	3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 54100 R410A
indoor unit  Compressor  Fan  Refrigerant	Total capacity  Maximum quant Type Quantity  Type Quantity  Static pressure Airflow rate Type Factory charge	kW tity Pa m³/h	51.0 3.43 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 53200 R410A 8.4×2+15.4	3.38 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 54100 R410A 8.4+10+15.4	3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 54100 R410A 8.4+10+15.4
indoor unit  Compressor  Fan  Refrigerant  Pipe	Total capacity Maximum quant Type Quantity Type Quantity Static pressure Airflow rate Type Factory charge Liquid pipe	kW tity  Pa m³/h kg mm	51.0 3.43 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 53200 R410A 8.4×2+15.4 Ф19.1	3.38 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 54100 R410A 8.4+10+15.4 Φ19.1	3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 54100 R410A 8.4+10+15.4 Φ19.1
Compressor  Fan  Refrigerant  Pipe connections	Total capacity  Maximum quant Type Quantity  Type Quantity  Static pressure Airflow rate  Type Factory charge Liquid pipe Gas pipe	kW tity Pa m³/h kg mm mm	51.0 3.43 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 53200 R410A 8.4×2+15.4 Φ19.1 Φ41.3	3.38 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 54100 R410A 8.4+10+15.4 Ф19.1 Ф41.3	3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 54100 R410A 8.4+10+15.4 Ф19.1 Ф41.3
indoor unit  Compressor  Fan  Refrigerant  Pipe	Total capacity  Maximum quant Type Quantity  Type Quantity  Static pressure Airflow rate  Type Factory charge Liquid pipe Gas pipe	kW tity  Pa m³/h kg mm	51.0 3.43 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 53200 R410A 8.4×2+15.4 Φ19.1 Φ41.3 67	3.38 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 54100 R410A 8.4+10+15.4 Ф19.1 Ф41.3 67	3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 54100 R410A 8.4+10+15.4 Ф19.1 Ф41.3 68
Compressor  Fan  Refrigerant  Pipe connections	Total capacity  Maximum quant Type Quantity  Type Quantity  Static pressure Airflow rate Type Factory charge Liquid pipe Gas pipe ure level	kW tity Pa m³/h kg mm mm	51.0 3.43 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 53200 R410A 8.4×2+15.4 Φ19.1 Φ41.3 67 (940×1760×825)×2	3.38 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 54100 R410A 8.4+10+15.4 Ф19.1 Ф41.3	3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 54100 R410A 8.4+10+15.4 Ф19.1 Ф41.3 68 (940×1760×825)×2
indoor unit  Compressor  Fan  Refrigerant  Pipe connections  Sound pressu  Net dimensio	Total capacity  Maximum quant Type Quantity  Type Quantity  Static pressure  Airflow rate  Type Factory charge Liquid pipe Gas pipe  ure level  pns (W×H×D)	tity  Pa  m³/h  kg  mm  dB(A)  mm	51.0 3.43 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 53200 R410A 8.4×2+15.4 Φ19.1 Φ41.3 67	3.38  50-130% of outdoor unit capacity  64  Scroll DC inverter  4  DC  4  0-20 (default) 20-120 (customized)  54100  R410A  8.4+10+15.4  Ф19.1  Ф41.3  67  (940×1760×825)×2 +(1340×1760×825) (1010×1945×890)×2	3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 54100 R410A 8.4+10+15.4 Ф19.1 Ф41.3 68 (940×1760×825)×2 +(1340×1760×825) (1010×1945×890)×2
indoor unit  Compressor  Fan  Refrigerant  Pipe connections  Sound pressu  Net dimensio  Packed dimension	Total capacity  Maximum quant Type Quantity  Type Quantity  Static pressure Airflow rate Type Factory charge Liquid pipe Gas pipe ure level	kW  tity  Pa  m³/h  kg  mm  mm  dB(A)  mm  mm	51.0 3.43 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 53200 R410A 8.4×2+15.4 Φ19.1 Φ41.3 67 (940×1760×825)×2 +(1340×1760×825) (1010×1945×890)×2 +(1410×1945×890)	3.38  50-130% of outdoor unit capacity  64  Scroll DC inverter  4  DC  4  0-20 (default) 20-120 (customized)  54100  R410A  8.4+10+15.4  Ф19.1  Ф41.3  67  (940×1760×825)×2 +(1340×1760×825) (1010×1945×890)×2 +(1410×1945×890)	3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 54100 R410A 8.4+10+15.4 Ф19.1 Ф41.3 68 (940×1760×825)×2 +(1340×1760×825) (1010×1945×890)×2 +(1410×1945×890)
indoor unit  Compressor  Fan  Refrigerant  Pipe connections  Sound pressu  Net dimensio  Packed dime  Net weight	Total capacity  Maximum quant Type Quantity  Type Quantity  Static pressure Airflow rate  Type Factory charge Liquid pipe Gas pipe ure level ons (W×H×D)  nsions (W×H×D)	kW  tity  Pa  m³/h  kg  mm  mm  dB(A)  mm  kg	51.0 3.43 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 53200 R410A 8.4×2+15.4 Φ19.1 Φ41.3 67 (940×1760×825)×2 +(1340×1760×825) (1010×1945×890)×2 +(1410×1945×890) 200×2+325	3.38  50-130% of outdoor unit capacity  64  Scroll DC inverter  4  DC  4  0-20 (default) 20-120 (customized) 54100  R410A  8.4+10+15.4  Ф19.1  Ф41.3  67  (940×1760×825)×2 +(1340×1760×825) (1010×1945×890)×2 +(1410×1945×890) 200+225+325	3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 54100 R410A 8.4+10+15.4 Ф19.1 Ф41.3 68 (940×1760×825)×2 +(1340×1760×825) (1010×1945×890)×2 +(1410×1945×890) 200+225+325
Ean  Refrigerant  Pipe connections  Sound pressu  Net dimensio  Packed dimensio  Packed dimensio  Net weight  Gross weight	Total capacity  Maximum quant Type Quantity  Type Quantity  Static pressure  Airflow rate  Type Factory charge Liquid pipe Gas pipe  Irre level  Ins (W×H×D)  Insions (W×H×D)	kW tity  Pa m³/h  kg mm dB(A) mm kg kg	51.0 3.43  50-130% of outdoor unit capacity 64  Scroll DC inverter 4  DC 4 0-20 (default) 20-120 (customized) 53200 R410A 8.4×2+15.4 Φ19.1 Φ41.3 67 (940×1760×825)×2 +(1340×1760×825) (1010×1945×890)×2 +(1410×1945×890) 200×2+325 215×2+350	3.38 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 54100 R410A 8.4+10+15.4 Ф19.1 Ф41.3 67 (940×1760×825)×2 +(1340×1760×825) (1010×1945×890)×2 +(1410×1945×890) 200+225+325 215+245+350	3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 54100 R410A 8.4+10+15.4 Ф19.1 Ф41.3 68 (940×1760×825)×2 +(1340×1760×825) (1010×1945×890)×2 +(1410×1945×890) 200+225+325 215+245+350
Compressor  Fan  Refrigerant  Pipe connections  Sound pressu Net dimensio  Packed dime  Net weight	Total capacity  Maximum quant Type Quantity  Type Quantity  Static pressure  Airflow rate  Type Factory charge Liquid pipe Gas pipe  ure level  ons (W×H×D)  nsions (W×H×D)	kW  tity  Pa  m³/h  kg  mm  mm  dB(A)  mm  kg	51.0 3.43 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 53200 R410A 8.4×2+15.4 Φ19.1 Φ41.3 67 (940×1760×825)×2 +(1340×1760×825) (1010×1945×890)×2 +(1410×1945×890) 200×2+325	3.38  50-130% of outdoor unit capacity  64  Scroll DC inverter  4  DC  4  0-20 (default) 20-120 (customized) 54100  R410A  8.4+10+15.4  Ф19.1  Ф41.3  67  (940×1760×825)×2 +(1340×1760×825) (1010×1945×890)×2 +(1410×1945×890) 200+225+325	3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 4 0-20 (default) 20-120 (customized) 54100 R410A 8.4+10+15.4 Ф19.1 Ф41.3 68 (940×1760×825)×2 +(1340×1760×825) (1010×1945×890)×2 +(1410×1945×890) 200+225+325

- Notes:

  Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level di erence.

  Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.

  Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			68	70	72
Model name	•	-	ERVc-652	ERVc-674	ERVc-691
				16HP+24HP+30HP	
Combination	31	\	18HP+20HP+30HP		18HP+24HP+30HP 380-415/3/50(60)
Power supply	<u>'</u>	V/ph/Hz kW	380-415/3/50(60)	380-415/3/50(60)	202.0
	Capacity	kBtu/h	191.0	197.0	
Cooling		<u> </u>	651.4	671.9	688.9 58.8
	Power input	kW	57.2	57.7	3.44
	1		3.34 50-130% of outdoor unit	3.41 50-130% of outdoor unit	50-130% of outdoor unit
Connected	Total capacity		capacity	capacity	capacity
indoor unit	Maximum quantity		64	64	64
Compressor			Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
Quantity			4	4	4
	Туре		DC	DC	DC
F	Quantity		4	5	5
Fan	Static pressure	Pa	,	0-20 (default)	0-20 (default)
	Airflow rate	m³/h			20-120 (customized)
	+	111 /11			60000
Refrigerant	Type Factory charge	kg			R410A 10+12.8+15.4
Pipe connections Ga Sound pressure I	<del>                                     </del>				Ф22.2
	Liquid pipe Gas pipe	mm		Scroll DC inverter         Scroll DC inverter           4         4           DC         DC           4         5           0-20 (default)         0-20 (default)           20-120 (customized)         55000           S5000         59100           R410A         R410A           10×2+15.4         8.4+12.8+15.4           Ф22.2         Ф22.2           Ф44.5         68           68         68           940×1760×825)×2+         (1340×1760×825)×2           (1340×1760×825)         (1340×1760×825)×2           (1010×1945×890)×2+         (1010×1945×890)+           (1410×1945×890)         (1410×1945×890)×2           212+225+325         200+260+325           232+245+350         -15 to 55           74         76           ERVc-711         ERVc-734           0HP+24HP+30HP         16HP+30HP+30HP	Ψ22.2 Φ44.5
Sound proces	1 ' '	dB(A)			Ψ44.5 68
		<u> </u>			(940×1760×825)+
Net dimensio	ns (W×H×D)	mm	` (1340×1760×825)	(1340×1760×825)´×2	(1340×1760×825)×2
Packed dime	nsions (W×H×D)	mm	(1010×1945×890)×2+ (1410×1945×890)	,	(1010×1945×890)+ (1410×1945×890)×2
Net weight		kg	212+225+325	200+260+325	212+260+325
Gross weight		kg	232+245+350	215+285+350	232+285+350
Ambient tem range (Coolin		°C	-15 to 55	-15 to 55	-15 to 55
HP			74	76	78
Model name	-			ED) / 1 P7 /	
			ERVC-711	ERVC-734	ERVc-751
Combination	type		20HP+24HP+30HP		ERVc-751 18HP+30HP+30HP
Combination		V/ph/Hz		16HP+30HP+30HP	
	,	V/ph/Hz kW	20HP+24HP+30HP 380-415/3/50(60)	16HP+30HP+30HP 380-415/3/50(60)	18HP+30HP+30HP
Combination Power supply		<del> </del>	20HP+24HP+30HP 380-415/3/50(60)	16HP+30HP+30HP 380-415/3/50(60) 215.0	18HP+30HP+30HP 380-415/3/50(60)
Combination	,	kW	20HP+24HP+30HP 380-415/3/50(60) 208.0	16HP+30HP+30HP 380-415/3/50(60)	18HP+30HP+30HP 380-415/3/50(60) 220.0
Combination Power supply	Capacity	kW kBtu/h	20HP+24HP+30HP 380-415/3/50(60) 208.0 709.4	16HP+30HP+30HP 380-415/3/50(60) 215.0 733.3	18HP+30HP+30HP 380-415/3/50(60) 220.0 750.3
Combination Power supply	Capacity Power input	kW kBtu/h	20HP+24HP+30HP 380-415/3/50(60) 208.0 709.4 62.8	16HP+30HP+30HP 380-415/3/50(60) 215.0 733.3 65.1	18HP+30HP+30HP 380-415/3/50(60) 220.0 750.3 66.2
Combination Power supply Cooling	Capacity Power input COP	kW kBtu/h kW	20HP+24HP+30HP 380-415/3/50(60) 208.0 709.4 62.8 3.31 50-130% of outdoor unit	16HP+30HP+30HP 380-415/3/50(60) 215.0 733.3 65.1 3.30 50-130% of outdoor unit	18HP+30HP+30HP 380-415/3/50(60) 220.0 750.3 66.2 3.32 50-130% of outdoor unit
Combination Power supply Cooling Connected indoor unit	Capacity Power input COP Total capacity	kW kBtu/h kW	20HP+24HP+30HP 380-415/3/50(60) 208.0 709.4 62.8 3.31 50-130% of outdoor unit capacity	16HP+30HP+30HP 380-415/3/50(60) 215.0 733.3 65.1 3.30 50-130% of outdoor unit capacity	18HP+30HP+30HP 380-415/3/50(60) 220.0 750.3 66.2 3.32 50-130% of outdoor unit capacity
Combination Power supply Cooling Connected	Capacity Power input COP Total capacity Maximum quant	kW kBtu/h kW	20HP+24HP+30HP 380-415/3/50(60) 208.0 709.4 62.8 3.31 50-130% of outdoor unit capacity 64	16HP+30HP+30HP 380-415/3/50(60) 215.0 733.3 65.1 3.30 50-130% of outdoor unit capacity 64	18HP+30HP+30HP 380-415/3/50(60) 220.0 750.3 66.2 3.32 50-130% of outdoor unit capacity 64
Combination Power supply Cooling Connected indoor unit	Capacity Power input COP Total capacity Maximum quant	kW kBtu/h kW	20HP+24HP+30HP 380-415/3/50(60) 208.0 709.4 62.8 3.31 50-130% of outdoor unit capacity 64 Scroll DC inverter	16HP+30HP+30HP 380-415/3/50(60) 215.0 733.3 65.1 3.30 50-130% of outdoor unit capacity 64 Scroll DC inverter	18HP+30HP+30HP 380-415/3/50(60) 220.0 750.3 66.2 3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter
Combination Power supply Cooling  Connected indoor unit Compressor	Capacity Power input COP Total capacity Maximum quant Type Quantity	kW kBtu/h kW	20HP+24HP+30HP 380-415/3/50(60) 208.0 709.4 62.8 3.31 50-130% of outdoor unit capacity 64 Scroll DC inverter	16HP+30HP+30HP 380-415/3/50(60) 215.0 733.3 65.1 3.30 50-130% of outdoor unit capacity 64 Scroll DC inverter 5	18HP+30HP+30HP 380-415/3/50(60) 220.0 750.3 66.2 3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 5
Combination Power supply Cooling Connected indoor unit	Capacity Power input COP Total capacity Maximum quant Type Quantity Type	kW kBtu/h kW	20HP+24HP+30HP 380-415/3/50(60) 208.0 709.4 62.8 3.31 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC	16HP+30HP+30HP 380-415/3/50(60) 215.0 733.3 65.1 3.30 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default)	18HP+30HP+30HP 380-415/3/50(60) 220.0 750.3 66.2 3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC
Combination Power supply Cooling  Connected indoor unit Compressor	Capacity Power input COP Total capacity Maximum quant Type Quantity Type Quantity	kW kBtu/h kW	20HP+24HP+30HP 380-415/3/50(60) 208.0 709.4 62.8 3.31 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 5 0-20 (default)	16HP+30HP+30HP 380-415/3/50(60) 215.0 733.3 65.1 3.30 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5	18HP+30HP+30HP 380-415/3/50(60) 220.0 750.3 66.2 3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default)
Combination Power supply Cooling Connected indoor unit Compressor Fan	Capacity Power input COP Total capacity Maximum quant Type Quantity Type Quantity Static pressure	kW kBtu/h kW tity	20HP+24HP+30HP 380-415/3/50(60) 208.0 709.4 62.8 3.31 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 5 0-20 (default) 20-120 (customized)	16HP+30HP+30HP 380-415/3/50(60) 215.0 733.3 65.1 3.30 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default) 20-120 (customized)	18HP+30HP+30HP 380-415/3/50(60) 220.0 750.3 66.2 3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default) 20-120 (customized)
Combination Power supply Cooling  Connected indoor unit Compressor	Capacity Power input COP Total capacity Maximum quant Type Quantity Type Quantity Static pressure Airflow rate	kW kBtu/h kW tity	20HP+24HP+30HP 380-415/3/50(60) 208.0 709.4 62.8 3.31 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 5 0-20 (default) 20-120 (customized) 60000	16HP+30HP+30HP 380-415/3/50(60) 215.0 733.3 65.1 3.30 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default) 20-120 (customized) 59600	18HP+30HP+30HP 380-415/3/50(60) 220.0 750.3 66.2 3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default) 20-120 (customized)
Combination Power supply Cooling Connected indoor unit Compressor Fan Refrigerant Pipe	Capacity Power input COP Total capacity Maximum quant Type Quantity Type Quantity Static pressure Airflow rate Type	kW kBtu/h kW tity	20HP+24HP+30HP 380-415/3/50(60) 208.0 709.4 62.8 3.31 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 5 0-20 (default) 20-120 (customized) 60000 R410A	16HP+30HP+30HP 380-415/3/50(60) 215.0 733.3 65.1 3.30 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default) 20-120 (customized) 59600 R410A	18HP+30HP+30HP 380-415/3/50(60) 220.0 750.3 66.2 3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default) 20-120 (customized) 60500 R410A
Combination Power supply Cooling Connected indoor unit Compressor Fan Refrigerant	Capacity Power input COP Total capacity Maximum quant Type Quantity Type Quantity Static pressure Airflow rate Type Factory charge	kW kBtu/h kW tity Pa m³/h	20HP+24HP+30HP 380-415/3/50(60) 208.0 709.4 62.8 3.31 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 5 0-20 (default) 20-120 (customized) 60000 R410A 10+12.8+15.4	16HP+30HP+30HP 380-415/3/50(60) 215.0 733.3 65.1 3.30 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default) 20-120 (customized) 59600 R410A 8.4+15.4×2	18HP+30HP+30HP 380-415/3/50(60) 220.0 750.3 66.2 3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default) 20-120 (customized) 60500 R410A 10+15.4×2
Combination Power supply Cooling Connected indoor unit Compressor Fan Refrigerant Pipe	Capacity Power input COP Total capacity Maximum quant Type Quantity Type Quantity Static pressure Airflow rate Type Factory charge Liquid pipe Gas pipe	kW kBtu/h kW tity Pa m³/h kg mm	20HP+24HP+30HP 380-415/3/50(60) 208.0 709.4 62.8 3.31 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 5 0-20 (default) 20-120 (customized) 60000 R410A 10+12.8+15.4 Φ22.2	16HP+30HP+30HP 380-415/3/50(60) 215.0 733.3 65.1 3.30 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default) 20-120 (customized) 59600 R410A 8.4+15.4×2 Φ22.2 Φ44.5 68	18HP+30HP+30HP 380-415/3/50(60) 220.0 750.3 66.2 3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default) 20-120 (customized) 60500 R410A 10+15.4×2 Φ22.2
Combination Power supply Cooling Connected indoor unit Compressor Fan Refrigerant Pipe connections	Capacity Power input COP Total capacity Maximum quant Type Quantity Type Quantity Static pressure Airflow rate Type Factory charge Liquid pipe Gas pipe Ire level	kW kBtu/h kW tity Pa m³/h kg mm mm	20HP+24HP+30HP 380-415/3/50(60) 208.0 709.4 62.8 3.31 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 5 0-20 (default) 20-120 (customized) 60000 R410A 10+12.8+15.4 Ф22.2 Ф44.5	16HP+30HP+30HP 380-415/3/50(60) 215.0 733.3 65.1 3.30 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default) 20-120 (customized) 59600 R410A 8.4+15.4×2 Φ22.2 Φ44.5	18HP+30HP+30HP 380-415/3/50(60) 220.0 750.3 66.2 3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default) 20-120 (customized) 60500 R410A 10+15.4×2 Φ22.2 Φ44.5 68 (940×1760×825)+
Combination Power supply Cooling Connected indoor unit Compressor Fan Refrigerant Pipe connections Sound pressu Net dimension	Capacity Power input COP Total capacity Maximum quant Type Quantity Type Quantity Static pressure Airflow rate Type Factory charge Liquid pipe Gas pipe Ire level	kW kBtu/h kW tity Pa m³/h kg mm mm dB(A)	20HP+24HP+30HP 380-415/3/50(60) 208.0 709.4 62.8 3.31 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 5 0-20 (default) 20-120 (customized) 60000 R410A 10+12.8+15.4 Φ22.2 Φ44.5 69 (940×1760×825)+	16HP+30HP+30HP 380-415/3/50(60) 215.0 733.3 65.1 3.30 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default) 20-120 (customized) 59600 R410A 8.4+15.4×2 Φ22.2 Φ44.5 68 (940×1760×825)+ (1340×1760×825)+ (1340×1760×825)+2 (1010×1945×890)+	18HP+30HP+30HP 380-415/3/50(60) 220.0 750.3 66.2 3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default) 20-120 (customized) 60500 R410A 10+15.4×2 Φ22.2 Φ44.5
Combination Power supply Cooling Connected indoor unit Compressor Fan Refrigerant Pipe connections Sound pressu Net dimension	Capacity Power input COP Total capacity Maximum quant Type Quantity Type Quantity Static pressure Airflow rate Type Factory charge Liquid pipe Gas pipe Ine level Ins (W×H×D)	kW kBtu/h kW tity Pa m³/h kg mm dB(A) mm	20HP+24HP+30HP 380-415/3/50(60) 208.0 709.4 62.8 3.31 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 5 0-20 (default) 20-120 (customized) 60000 R410A 10+12.8+15.4 Φ22.2 Φ44.5 69 (940×1760×825)+ (1340×1760×825)+2 (1010×1945×890)+	16HP+30HP+30HP 380-415/3/50(60) 215.0 733.3 65.1 3.30 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default) 20-120 (customized) 59600 R410A 8.4+15.4×2 Φ22.2 Φ44.5 68 (940×1760×825)+ (1340×1760×825)×2	18HP+30HP+30HP 380-415/3/50(60) 220.0 750.3 66.2 3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default) 20-120 (customized) 60500 R410A 10+15.4×2 Φ22.2 Φ44.5 68 (940×1760×825)+ (1340×1760×825)+ (1340×1760×825)×2 (1010×1945×890)+
Combination Power supply Cooling Connected indoor unit Compressor Fan Refrigerant Pipe connections Sound pressu Net dimensio	Capacity Power input COP Total capacity Maximum quant Type Quantity Type Quantity Static pressure Airflow rate Type Factory charge Liquid pipe Gas pipe Ire level Ins (W×H×D) Insions (W×H×D)	kW kBtu/h kW tity Pa mm mm dB(A) mm mm	20HP+24HP+30HP 380-415/3/50(60) 208.0 709.4 62.8 3.31 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 5 0-20 (default) 20-120 (customized) 60000 R410A 10+12.8+15.4 Φ22.2 Φ44.5 69 (940×1760×825)+ (1340×1760×825)+2 (1010×1945×890)+ (1410×1945×890)+ (1410×1945×890)+2 225+260+325	16HP+30HP+30HP 380-415/3/50(60) 215.0 733.3 65.1 3.30 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default) 20-120 (customized) 59600 R410A 8.4+15.4×2 Φ22.2 Φ44.5 68 (940×1760×825)+ (1340×1760×825)+ (1310×1945×890)+ (1410×1945×890)+ (1410×1945×890)×2	18HP+30HP+30HP 380-415/3/50(60) 220.0 750.3 66.2 3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default) 20-120 (customized) 60500 R410A 10+15.4×2 Φ22.2 Φ44.5 68 (940×1760×825)+ (1340×1760×825)×2 (1010×1945×890)+ (1410×1945×890)×2
Combination Power supply Cooling Connected indoor unit Compressor Fan Refrigerant Pipe connections Sound pressu Net dimensio Packed dime Net weight	Capacity Power input COP Total capacity Maximum quant Type Quantity Type Quantity Static pressure Airflow rate Type Factory charge Liquid pipe Gas pipe Ire level Ins (W×H×D) Insions (W×H×D)	kW kBtu/h kW tity Pa mm mm dB(A) mm kg	20HP+24HP+30HP 380-415/3/50(60) 208.0 709.4 62.8 3.31 50-130% of outdoor unit capacity 64 Scroll DC inverter 4 DC 5 0-20 (default) 20-120 (customized) 60000 R410A 10+12.8+15.4 Φ22.2 Φ44.5 69 (940×1760×825)+ (1340×1760×825)×2 (1010×1945×890)+ (1410×1945×890)×2	16HP+30HP+30HP 380-415/3/50(60) 215.0 733.3 65.1 3.30 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default) 20-120 (customized) 59600 R410A 8.4+15.4×2 Φ22.2 Φ44.5 68 (940×1760×825)+ (1340×1760×825)+ (1340×1760×825)×2 (1010×1945×890)+ (1410×1945×890)+2 200+325×2	18HP+30HP+30HP 380-415/3/50(60) 220.0 750.3 66.2 3.32 50-130% of outdoor unit capacity 64 Scroll DC inverter 5 DC 5 0-20 (default) 20-120 (customized) 60500 R410A 10+15.4×2 Φ22.2 Φ44.5 68 (940×1760×825)+ (1340×1760×825)×2 (1010×1945×890)+ (1410×1945×890)×2 212+325×2

- Notes:

  Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level di erence.

  Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.

  Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

				02	
HP		80	82	84	
Model name			ERVc-771	ERVc-790	ERVc-810
Combination	type		20HP+30HP+30HP	22HP+30HP+30HP	24HP+30HP+30HP
Power supply		V/ph/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
	Capacity	kW	226.0	231.5	237.0
Cooling	Capacity	kBtu/h	770.8	789.5	808.3
Cooling	Power input	kW	70.2	70.1	71.8
	COP		3.22	3.30	3.30
Connected			50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
indoor unit	Maximum quant	ity	64	64	64
Compressor Type Quantity			Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
			5	5	5
Туре			DC	DC	DC
Гор	Quantity		5	6	6
Fan	Static pressure	Pa	0-20 (default) 20-120 (customized)	0-20 (default) 20-120 (customized)	0-20 (default) 20-120 (customized)
	Airflow rate	m³/h	60500	65500	65500
Refrigerant	Туре		R410A	R410A	R410A
Kemgerani	Factory charge	kg	10+15.4×2	12.8+15.4×2	12.8+15.4×2
Pipe _	Liquid pipe	mm	Ф22.2	Ф22.2	Ф25.4
connections	Gas pipe	mm	Ф44.5	Ф44.5	Ф50.8
Sound pressu	re level	dB(A)	69	69	69
Net dimension	ns (W×H×D)	mm	(940×1760×825)+ (1340×1760×825)×2	(1340×1760×825)×3	(1340×1760×825)×3
Packed dimer	Packed dimensions (W×H×D) mm		(1010×1945×890)+ (1410×1945×890)×2	(1410×1945×890)×3	(1410×1945×890)×3
Net weight		kg	225+325×2	225+325×2 260+325×2	
Gross weight		kg	245+350×2	285+350×2	285+350×2
Ambient tem range (Cooling		°C	-15 to 55	-15 to 55	-15 to 55
HP			86	88	90
Model name	·		ERVc-830	ERVc-850	ERVc-870
Combination	n type		26HP+30HP+30HP	28HP+30HP+30HP	30HP+30HP+30HP
Power supply	/	V/ph/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
	Causa situ .	kW	243.0	248.5	255.0
0 1	Capacity	kBtu/h	828.7	847.5	869.7
Cooling	Power input	kW	72.2	75.1	79.2
	COP		3.37	3.31	3.22
Connected	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
indoor unit	Maximum quar	ntity	64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
Compressor	Quantity		6	6	6
	Type		DC	DC	DC
E	Quantity		6	6	6
Fan	Static pressure	Pa	0-20 (default) 20-120 (customized)	0-20 (default) 20-120 (customized)	0-20 (default) 20-120 (customized)
	Airflow rate	m³/h	66000	66000	66000
Refrigerant	Type		R410A	R410A	R410A
Kemgerani	Factory charge	kg	15.4×3	15.4×3	15.4×3
Pipe	Liquid pipe	mm	Ф25.4	Ф25.4	Ф25.4
connections	Gas pipe	mm	Ф50.8	Ф50.8	Ф50.8
Sound pressu	ure level	dB(A)	69	69	69
Net dimensio		mm	(1340×1760×825)×3	(1340×1760×825)×3	(1340×1760×825)×3
Packed dime	ensions (W×H×D)	mm	(1410×1945×890)×3	(1410×1945×890)×3	(1410×1945×890)×3

Net weight

Gross weight

Ambient temp. operation range (Cooling)

325×3

350×3

-15 to 55

Notes:
 Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level di erence.
 Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
 Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

325×3

350×3

-15 to 55

325×3

350×3

-15 to 55

kg

kg

°C

#### **ERVc Combination Table**

DTU/		Standard combination		Max. Qty. of	
HP	BTU/hr	Model	Combination type	indoor units	
8	76,400	ERVc-077	single module	13	
10	95,500	ERVc-096	single module	16	
12	114,200	ERVc-114	single module	19	
14	136,400	ERVc-137	single module	23	
16	153,500	ERVc-154	single module	26	
18	170,500	ERVc-171	single module	29	
20	191,000	ERVc-191	single module	33	
22	209,700	ERVc-210	single module	36	
24	228,500	ERVc-230	single module	39	
26	248,900	ERVc-250	single module	43	
28	267,700	ERVc-270	single module	46	
30	289,900	ERVc-290	single module	50	
32	307,000	ERVc-308	ERVc-154 + ERVc-154	53	
34	327,400	ERVc-328	ERVc-137 + ERVc-191	56	
36	344,500	ERVc-345	ERVc-154 + ERVc-191	59	
38	361,500	ERVc-362	ERVc-171 + ERVc-191	62	
40	382,000	ERVc-384	ERVc-154 + ERVc-230	64	
42	399,000	ERVc-401	ERVc-171 + ERVc-230	64	
44	419,500	ERVc-421	ERVc-191 + ERVc-230	64	
46	443,400	ERVc-444	ERVc-154 + ERVc-290	64	
48	460,400	ERVc-461	ERVc-171 + ERVc-290	64	
50	480,900	ERVc-481	ERVc-191 + ERVc-290	64	
52	499,600	ERVc-500	ERVc-210 + ERVc-290	64	
54	518,400	ERVc-520	ERVc-230 + ERVc-290	64	
56	538,800	ERVc-540	ERVc-250 + ERVc-290	64	
58	557,600	ERVc-560	ERVc-270 + ERVc-290	64	
60	579,800	ERVc-580	ERVc-290 + ERVc-290	64	
62	569,900	ERVc-598	ERVc-154 + ERVc-154 + ERVc-290	64	
64	617,300	ERVc-618	ERVc-137 + ERVc-191 + ERVc-290	64	
66	634,400	ERVc-635	ERVc-154 + ERVc-191 + ERVc-290	64	
68	651,400	ERVc-652	ERVc-171 + ERVc-191 + ERVc-290	64	
70	671,900	ERVc-674	ERVc-154 + ERVc-230 + ERVc-290	64	
72	688,900	ERVc-691	ERVc-171 + ERVc-230 + ERVc-290	64	
74	709,400	ERVc-711	ERVc-191 + ERVc-230 + ERVc-290	64	
76	733,300	ERVc-734	ERVc-154 + ERVc-290 + ERVc-290	64	
78	750,300	ERVc-751	ERVc-171 + ERVc-290 + ERVc-290	64	
80	770,800	ERVc-771	ERVc-191 + ERVc-290 + ERVc-290	64	
82	789,500	ERVc-790	ERVc-210 + ERVc-290 + ERVc-290	64	
84	808,300	ERVc-810	ERVc-230 + ERVc-290 + ERVc-290	64	
86	828,700	ERVc-830	ERVc-250 + ERVc-290 + ERVc-290	64	
88	847,500	ERVc-850	ERVc-270 + ERVc-290 + ERVc-290	64	
90	869,700	ERVc-870	ERVc-290 + ERVc-290 + ERVc-290	64	















SIMILAR CO., LTD. (HEAD OFFICE) 235 Lasalle Road, Bangna-tai Sub-district, Bangna District, Bangkok 10260 Thailand.

: marketing@eminent.co.th

: www.eminent.co.th

: Eminent Air

: +66 2 083 5555

: +66 2 033 6235



Call Center : +66 2 033 6229 : @eminentairservice

Distributed by