



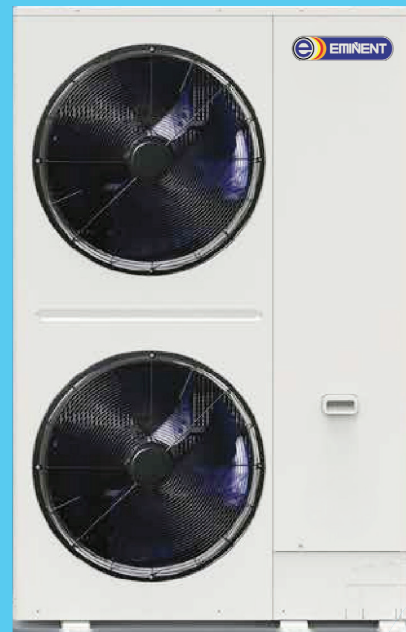
ERVS



WORLD STANDARD AIR CONDITIONERS

ERVS

Easy to Install • Easy to Fit • Easy Life

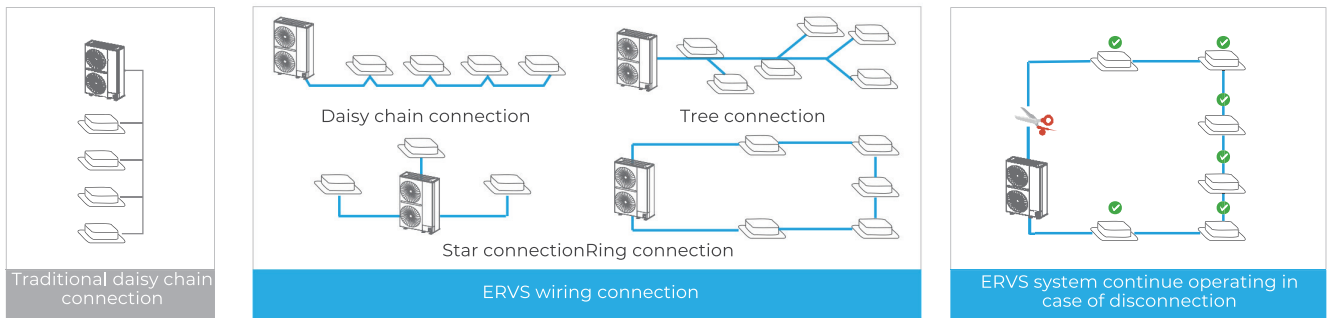


86,000-228,600 BTU



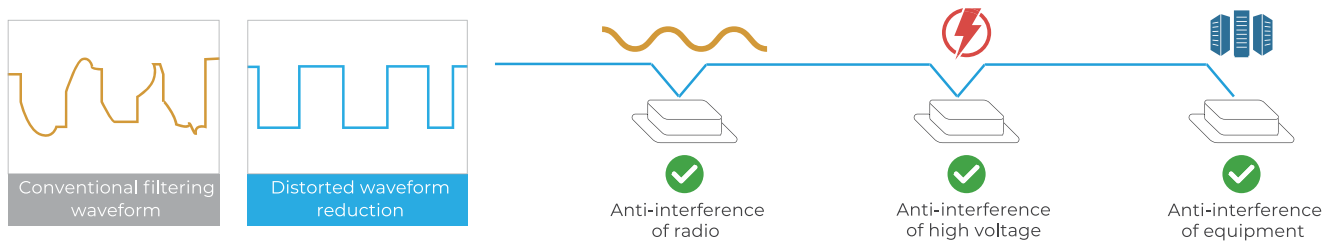
Support Any Topology Communication

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



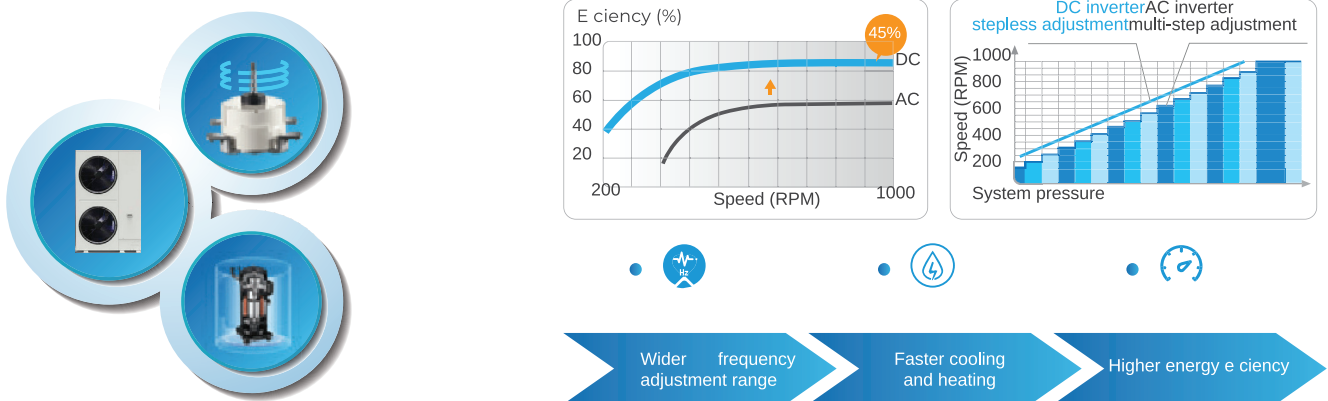
Super Anti-interference Capability

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



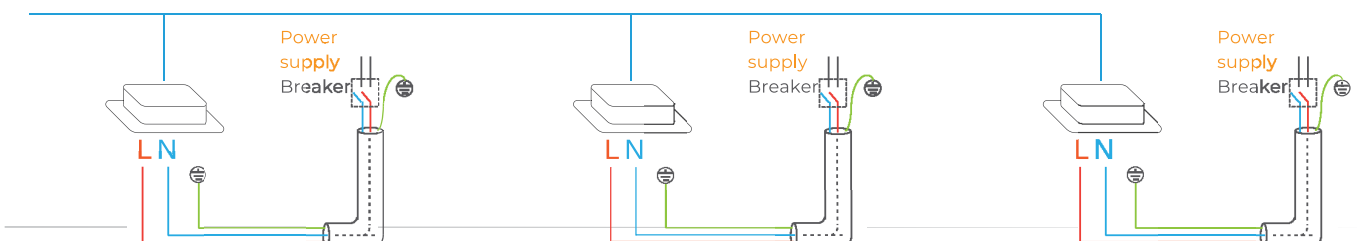
Full DC Inverter Technology

The ERVS series 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.



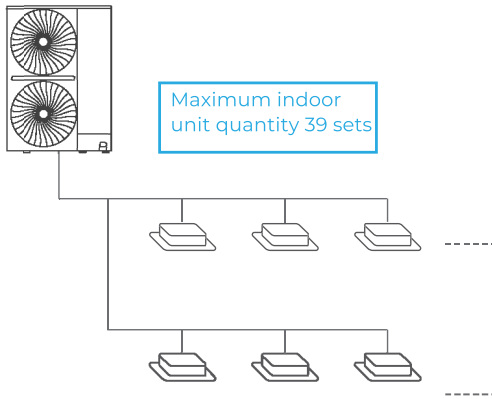
Flexible Power Supply for Indoor Units

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.

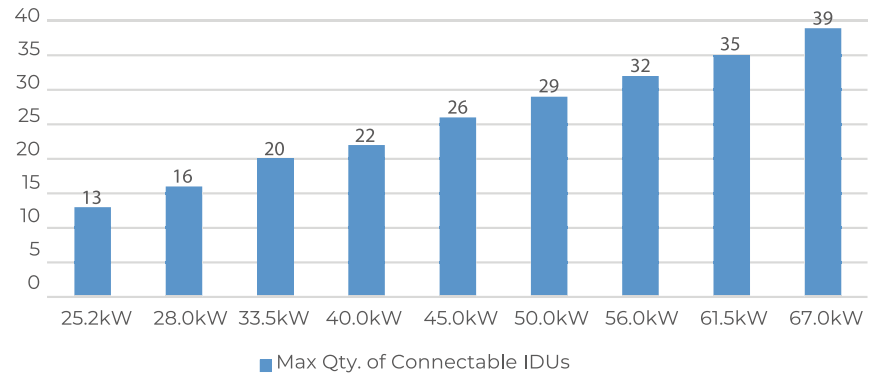


Flexible Indoor Units Connection

A single outdoor unit supports up to 39 indoor units, freeing up considerable space outside. Use your backyard more wisely with much more space available created by less number of outdoor units.

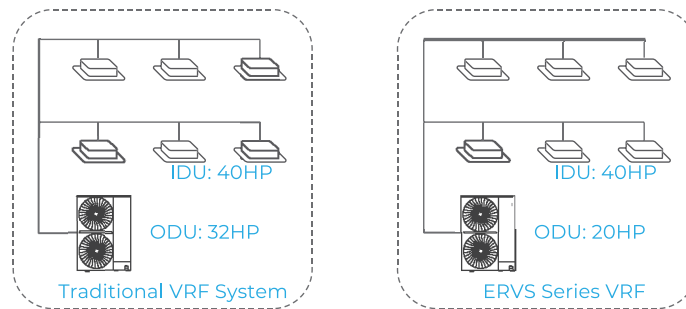


Max Qty. of Connectable IDUs



Wide Combination Ratio

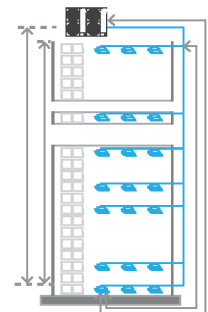
Compared to traditional VRF with combination ratio of 50-130%, the ERVS Series VRF can be extended to 50-200%, and the wider combination ratio allows for more flexible system configuration. The larger combination ratio can be applied to long-term part-load operation scenarios, allowing for further reduction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



Flexible Piping Design

The total piping length of the ERVS system can be up to 560m, the level difference between indoor and outdoor units can be up to 50m and the level difference between indoor units can be up to 30m, making the ERVS Series VRF perfectly suitable for all buildings.

		Permitted value(m)	25.2-67.0kW
Pipe Length	Total Pipe Length (Actual)		560
	Longest piping ¹	Actual Length	150
		Equivalent Length	175
Level difference	Equivalent piping length (from the farthest IDU to the first indoor branch joint/header) ²		40/90*
	Level difference between IDU~ODU ³	Outdoor Unit Up	50
		Outdoor Unit Down	40
	Level difference between IDU~IDU ⁴		30



*The longest length after first branch is 40m as standard but can be extended to up to 90m under certain conditions. Please contact your local dealer for further information.

Specifications

HP			8	10	12	14	
Model			ERVS-086	ERVS-096	ERVS-114	ERVS-137	
Power supply		V/ph/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	
Cooling	Capacity	kW	25.2	28	33.5	40	
		kBtu/h	86.0	95.5	114.3	136.5	
	Power input	kW	5.8	7.5	8.0	11.2	
	COP			4.34	3.73	4.19	3.57
Heating	Capacity	kW	27	31.5	37.5	45	
		kBtu/h	92.1	107.5	128.0	153.5	
	Power input	kW	5.7	6.8	7.9	10.7	
	COP			4.74	4.63	4.75	4.21
Connected indoor unit		Total capacity	50-130%	50-130%	50-130%	50-130%	
		Maximum quantity	13	16	20	22	
Compressor		Type	DC inverter	DC inverter	DC inverter	DC inverter	
		Quantity	1	1	1	1	
Fan		Type	Propeller	Propeller	Propeller	Propeller	
		Motor type	DC	DC	DC	DC	
Refrigerant		Type	R410A	R410A	R410A	R410A	
		Factory	kg	6.1	6.1	6.4	7.4
Pipe connections		Liquid pipe	mm	Φ12.7	Φ12.7	Φ12.7	
		Gas pipe	mm	Φ25.4	Φ25.4	Φ25.4	Φ25.4
Airflow rate		m ³ /h	11800	12500	12500	12500	
Sound pressure level		dB(A)	56	57	58	59	
Net dimensions (WxHxD)		mm	1130x1760x445	1130x1760x445	1130x1760x445	1130x1760x445	
Packed dimensions (WxHxD)		mm	1210x1916x597	1210x1916x597	1210x1916x597	1210x1916x597	
Net weight		kg	182	182	185	185	
Gross weight		kg	196	196	199	199	
Ambient temp. operation range		Cooling	°C	-15 to 55	-15 to 55	-15 to 55	-15 to 55
		Heating	°C	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			16	18	20	22	24	
Model			ERVS-154	ERVS-171	ERVS-191	ERVS-210	ERVS-230	
Power supply		V/ph/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	
Cooling	Capacity	kW	45	50	56	61.5	67	
		kBtu/h	153.5	170.6	191.1	209.8	228.6	
	Power input	kW	12.0	12.8	16.3	18.1	19.7	
	COP			3.75	3.91	3.44	3.40	3.40
Heating	Capacity	kW	50	56.5	63	69	75	
		kBtu/h	170.6	192.8	215.0	235.4	255.9	
	Power input	kW	11.1	13.8	15.3	16.9	17.5	
	COP			4.50	4.09	4.12	4.08	4.29
Connected indoor unit		Total capacity	50-130%	50-130%	50-130%	50-130%	50-130%	
		Maximum quantity	26	29	32	35	39	
Compressor		Type	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	
		Quantity	1	1	1	1	1	
Fan		Type	Propeller	Propeller	Propeller	Propeller	Propeller	
		Motor type	DC	DC	DC	DC	DC	
Refrigerant		Type	R410A	R410A	R410A	R410A	R410A	
		Factory	kg	8	8	8.5	8.5	9.7
Pipe connections		Liquid pipe	mm	Φ12.7	Φ15.9	Φ15.9	Φ15.9	
		Gas pipe	mm	Φ25.4	Φ28.6	Φ28.6	Φ28.6	Φ28.6
Airflow rate		m ³ /h	12500	20000	18500	19000	19000	
Sound pressure level		dB(A)	60	61	61	62	64	
Net dimensions (WxHxD)		mm	1130x1760x445	1250x1760x445	1250x1760x445	1250x1760x445	1250x1760x445	
Packed dimensions (WxHxD)		mm	1210x1916x597	1330x1916x597	1330x1916x597	1330x1916x597	1330x1916x597	
Net weight		kg	192	213	223	233	238	
Gross weight		kg	206	228	238	248	253	
Ambient temp. operation range		Cooling	°C	-15 to 55	-15 to 55	-15 to 55	-15 to 55	-15 to 55
		Heating	°C	-30 to 30	-30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:

- Indoor temperature 27°C DB; 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference; connect to Cassette type indoor unit.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference; connect to Cassette type indoor unit.
- 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 1m above the floor in a semi-anechoic chamber.

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