

MINI VRF

Heat Pump



MINI VRF *Heat Pump*

Optimized design for small buildings

Two Options: Standard and Mini C Series

Capacity Up to 18kw

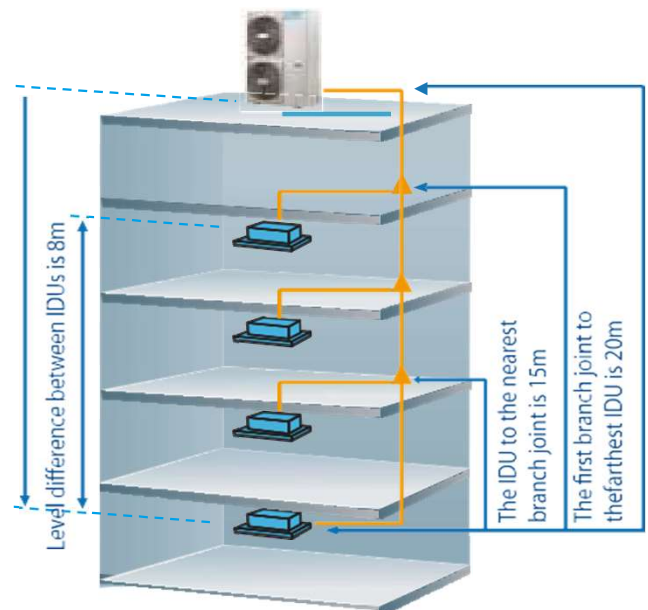
Connectable Indoor Units Quantity up to 9

Refrigerant Cooling PCB (Available for Mini C Series Only)

Precise Oil Control Technology

Advanced Silence Technology

Compact, Easy Installation



Mini VRF

Heat Pump

208-230/1/60



Model			CTVS-EMV-H-027-A-CE-DC-1	CTVS-EMV-H-034-A-CE-DC-1	CTVS-EMV-H-041-A-CE-DC-1
Voltage			1-phase, 220-240V, 50/60Hz	1-phase, 220-240V, 50/60Hz	1-phase, 220-240V, 50/60Hz
Cooling ¹	Capacity	kW	8	10	12
		Btu/h	27,297	34,121	40,946
	Input	kW	2	2	3.1
		Btu/W*h	13.6	13.4	13.2
	EER	kW/ kW	4	3.92	3.87
Heating ²	Capacity	kW	9	12	14
		Btu/h	30,709	40,946	47,770
	Input	kW	1.95	1.95	1.95
		Btu/W*h	15.8	13.8	13.9
	COP	kW/ kW	4.62	4.04	4.06
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity		
	Quantity		1~4	1~6	1~7
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		1	1	1
Fan motor	Type		DC	DC	DC
	Quantity		1	1	1
Outdoor air flow		m ³ /h	3700	5200	5000
		CFM	2,178	3,061	2,943
Sound pressure level ³		dB(A)	54	54	56
Net/Packed dimensions (W×H×D)	mm		982×712×426	950 x 840 x 440	950 x 840 x 440
	inch		38.6 x 28 x 16.8	37.4 x 33.1 x 17.3	37.4 x 33.1 x 17.3
Packed dimensions (W×H×D)	mm		1,048×810×485	1025 x 950 x 510	1025 x 950 x 510
	inch		41.3 x 31.9 x 19.1	40.4 x 37.4 x 20.1	40.4 x 37.4 x 20.1
Net/Gross weight	kg		53 / 57.5	71.5 / 81	83 / 92
	Lbs		116.8 / 126.8	157.6 / 178.6	183 / 202.8
Refrigerant type/factory charge		kg	R410A/2.2	R410A/2.2	R410A/2.2
Liquid/Gas pipe	mm		Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	inch		3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"
Minimum Circuit Amps (MCA)		A	21.25	28.75	35
Recommended Fuse Size (MFA)		A	25	32	40

Mini VRF

Cooling Only

208-230/1/60



Model			CTVS-EMV-H-048-A-CE-DC-1	CTVS-EMV-H-053-A-CE-DC-1	CTVS-EMV-H-060-A-CE-DC-1
Voltage			1-phase, 220-240V, 50/60Hz	1-phase, 220-240V, 50/60Hz	1-phase, 220-240V, 50/60Hz
Cooling ¹	Capacity	kW	14	15.5	17.5
		Btu/h	47,770	52,888	59,712
	Input	kW	3.1	3.1	6.12
		Btu/W*h	12.7	11.0	9.8
		kW/ kW	3.73	3.23	2.86
Heating ²	Capacity	kW	16	18	19.5
		Btu/h	54,594	61,419	66,537
	Input	kW	1.95	1.95	5.57
		Btu/W*h	14.2	3.9	11.9
		kW/ kW	4.16	4.16	3.5
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity		
	Quantity		1~8	1~9	1~9
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		1	1	1
Fan motor	Type		DC	DC	DC
	Quantity		1	1	1
Outdoor air flow		m ³ /h	5400	5200	5300
		CFM	3,178	3,061	3,120
Sound pressure level ³		dB(A)	56	56	57
Net/Packed dimensions (W×H×D)		mm	1040 x 865 x 523	1040 x 865 x 523	1040 x 865 x 523
		inch	40.9 x 34.1 x 20.6	40.9 x 34.1 x 20.6	40.9 x 34.1 x 20.6
Packed dimensions (W×H×D)		mm	1120 x 980 x 560	1120 x 980 x 560	1120 x 980 x 560
		inch	44.1 x 38.6 x 22	44.1 x 38.6 x 22	44.1 x 38.6 x 22
Net/Gross weight		kg	90.4 / 100.4	94.4 / 104.4	91 / 99.5
		Lbs	199.3 / 221.3	208.1 / 230.2	200 / 219
Refrigerant type/factory charge		kg	R410A/2.2	R410A/2.2	R410A/4.6
Liquid/Gas pipe		mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ19.1
		inch	3/8" / 5/8"	3/8" / 5/8"	3/8" / 3/4"
Minimum Circuit Amps (MCA)		A	40	40	40
Recommended Fuse Size (MFA)		A	40	40	40