

AV5 7-80 (TR)

Heat Pump 380-415V ~ 3N ~ 50/60Hz

Unidades exteriores expansión directa de
refrigerante variable VRF

Potencia 25 ÷ 276,0 kW



- Todos los compresores inverter de DC y todos los motores de ventilador.
- Capacidades de 8HP a 88HP.
- Hasta 64 unidades interiores..
- ESP de hasta 60Pa.
- Compresor con ciclo de trabajo pesado, prolonga su vida útil.
- Tecnología de control de aceite precisa.
- Tecnología avanzada de reducción de ruido.
- Tecnología de descongelación inteligente.
- Cableado de comunicación sencillo.
- Direccionamiento automático.
- Caja de control eléctrica refrigerada por aire.
- Caja de control eléctrica reversible.
- Fácil mantenimiento.



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Outdoor Units

Single units

8/10/12HP	14/16/18/20/22HP
	

Combinations of units

24HP	26/28/30/32/34HP	36/38/40/42/44HP
		
46HP	48/50/52/54/56HP	58/60/62/64/66HP
		
68HP	70/72/74/76/78HP	80/82/84/86/88HP
		

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Potencia 25 ÷ 276,0 kW

Especificaciones unidades

HP			8	10	12	14	16
Model			AV5-X252W/V2GN1	AV5-X280W/V2GN1	AV5-X335W/V2GN1	AV5-X400W/V2GN1	AV5-X450W/V2GN1
Combination type			/	/	/	/	/
Power supply			3 phase, 380-415V,	4 phase, 380-415V,	5 phase, 380-415V,	6 phase, 380-415V,	7 phase, 380-415V,
Cooling ¹	Capacity	kW	25,2	28	33,5	40	45
		kBtu/h	86	95,5	114,3	136,5	153,5
	Power input	kW	5,36	6,22	7,79	9,3	10,98
	EER	KW/KW	4,7	4,5	4,3	4,3	4,1
Heating ²	Capacity	kW	27	31,5	37,5	45	50
		kBtu/h	92,1	107,5	128	153,5	170,6
	Power input	kW	4,82	5,94	7,65	9,38	10,87
	COP	KW/KW	5,6	5,3	4,9	4,8	4,6
Connected indoor units	Total capacity		50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit
	AaxiAuA quantity		13	16	20	23	26
CoApressors	Type		DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		1	1	1	2	2
	Oil type		FV68H	FV68H	FV68H	FV68H	FV68H
	Start-up Aethod		Soft start	Soft start	Soft start	Soft start	Soft start
Fans	Type		Propeller	Propeller	Propeller	Propeller	Propeller
	Aotor type		DC	DC	DC	DC	DC
	Quantity		1	1	1	2	2
	Aotor input	W	580	580	580	360+290	360+290
	Aotor output	W	465	465	465	290+230	290+230
	Airflow rate	A3/h	12000	12000	12000	14000	14000
	Static pressure	Pa (in. W.G.)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)
	Static pressure	Pa (in. W.G.)	20-60 (0.08-0.24)	20-60 (0.08-0.24)	20-60 (0.08-0.24)	20-60 (0.08-0.24)	20-60 (0.08-0.24)
Refrigerant	Drive type		Direct	Direct	Direct	Direct	Direct
	Type		R410A	R410A	R410A	R410A	R410A
	Factory charge	kg (lbs.)	9 (20)	9 (20)	11 (24)	13 (29)	13 (29)
Pipe connections ³	Liquid pipe	AA (in.)	Φ12.7 (Φ1/2)	Φ12.7 (Φ1/2)	Φ15.9 (Φ5/8)	Φ15.9 (Φ5/8)	Φ15.9 (Φ5/8)
	Gas pipe	AA (in.)	Φ25.4 (Φ1)	Φ25.4 (Φ1)	Φ28.6 (Φ1-1/8)	Φ31.8 (Φ1-1/4)	Φ31.8 (Φ1-1/4)
	Oil balance	AA (in.)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)
Sound pressure level ⁴		dB(A)	58	59	60	62	62
Net diAensions (W×H×D)		in.	990×1635×790	990×1635×790	990×1635×790	1340×1635×790	1340×1635×790
		in.	39×64-3/8×31-1/8	39×64-3/8×31-1/8	39×64-3/8×31-1/8	52-3/4×64-3/8×31-1/8	52-3/4×64-3/8×31-1/8
Packed diAensions (W×H×D)		AA	1090×1805×860	1090×1805×860	1090×1805×860	1405×1805×855	1405×1805×855
		in.	42-7/8×71-1/16×33-7/8	42-7/8×71-1/16×33-7/8	42-7/8×71-1/16×33-7/8	55-3/8×71-1/16×33-5/8	55-3/8×71-1/16×33-5/8
Net weight		kg (lbs.)	219 (483)	219 (483)	237 (523)	297 (655)	297 (655)
Gross weight		kg (lbs.)	234 (516)	234 (516)	252 (556)	315 (695)	315 (695)
Operating teAperature range		°C (°F)	Cooling: -5 to 48 (23 to 118.4); heating: -20 to 24 (-4 to 75.2)				Cooling: -5 to 48 (23 to
Safety devices			High/low pressure switch, fan driver overload protector, overcurrent relay, inverter overload protector, overvoltage protector				
Standard accessories			Installation Manual, operation Aannual, connection pipes, clamps				

HP			18	20	22	24	26
Model			AV5-X500W/V2GN1	AV5-X560W/V2GN1	AV5-X615W/V2GN1	AV5-X670W/V2GN1	AV5-X730W/V2GN1
Combination type			/	/	/	12HP×2	10HP+16HP
Power supply			8 phase, 380-415V,	9 phase, 380-415V,	10 phase, 380-415V,	11 phase, 380-415V,	12 phase, 380-415V,
Cooling ¹	Capacity	kW	50	56	61.5	67	73
		kBtu/h	170.6	191.1	209.8	228.6	249
	Power input	kW	12.82	14.51	16.44	15.58	17.2
	EER	KW/KW	3.9	3.86	3.74	4.3	4.24
Heating ²	Capacity	kW	56	63	69	75	81.5
		kBtu/h	191.1	214.9	235.4	256	278.1
	Power input	kW	13.18	15.29	17.12	15.31	16.81
	COP	KW/KW	4.25	4.12	4.03	4.9	4.85
Connected indoor units	Total capacity		50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit
	AaxiAuA quantity		29	33	36	39	43
CoApressors	Type		DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		2	2	2	2	3
	Oil type		FV68H	FV68H	FV68H	FV68H	FV68H
Fans	Start-up Aethod		Soft start	Soft start	Soft start	Soft start	Soft start
	Type		Propeller	Propeller	Propeller	Propeller	Propeller
	Aotor type		DC	DC	DC	DC	DC
	Quantity		2	2	2	2	3
	Aotor input	W	520+440	550+430	550+430	580+580	580+(360+290)
	Aotor output	W	420+350	440+350	440+350	465+465	465+(290+230)
	Airflow rate	A3/h	16000	16000	16000	24000	26000
	Static pressure	Pa (in. W.G.)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)
	Pa (in. W.G.)	20-60 (0.08-0.24)	20-60 (0.08-0.24)	20-60 (0.08-0.24)	20-60 (0.08-0.24)	20-60 (0.08-0.24)	
Refrigerant	Drive type		Direct	Direct	Direct	Direct	Direct
	Type		R410A	R410A	R410A	R410A	R410A
Pipe connections ³	Factory charge	kg (lbs.)	13 (29)	16 (35)	16 (35)	11×2 (24×2)	9+13 (20+29)
	Liquid pipe	AA (in.)	Φ19.1 (Φ3/4)	Φ19.1 (Φ3/4)	Φ19.1 (Φ3/4)	Φ15.9 (Φ5/8)	Φ19.1 (Φ3/4)
	Gas pipe	AA (in.)	Φ31.8 (Φ1-1/4)	Φ31.8 (Φ1-1/4)	Φ31.8 (Φ1-1/4)	Φ28.6 (Φ1-1/8)	Φ31.8 (Φ1-1/4)
	Oil balance	AA (in.)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)
Sound pressure level ⁴		dB(A)	63	63	63	64	65
Net diAensions (W×H×D)		AA	1340×1635×790	1340×1635×790	1340×1635×790	(990×1635×790)×2	(990×1635×790)+(1340×16
		in.	52-3/4×64-3/8×31-1/8	52-3/4×64-3/8×31-1/8	52-3/4×64-3/8×31-1/8	(39×64-3/8×31-1/8)×2	(39×64-3/8×31-1/8)+(52-
Packed diAensions (W×H×D)		AA	1405×1805×855	1405×1805×855	1405×1805×855	(1090×1805×860)×2	(1090×1805×860)+(1405×52-
		in.	55-3/8×71-1/16×33-5/8	55-3/8×71-1/16×33-5/8	55-3/8×71-1/16×33-5/8	(42-7/8×71-1/16×33-7/8)×2	(42-7/8×71-1/16×33-7/8)+
Net weight		kg (lbs.)	305 (673)	340 (750)	340 (750)	237(523)×2	219+297 (483+655)
Gross weight		kg (lbs.)	323 (712)	358 (790)	358 (790)	252(556)×2	234+315 (516+695)
Operating teAperature range		°C (°F)	Cooling: -5 to 48 (23 to	Cooling: -5 to 48 (23 to	Cooling: -5 to 48 (23 to	Cooling: -5 to 48 (23 to	Cooling: -5 to 48 (23 to
Safety devices			High/low pressure switch, fan driver overload protector, overcurrent relay, inverter overload protector, overvoltage protector				
Standard accessories			Installation Annual, operation Annual, connection pipes, clamps				

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's stop valve.
- 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.

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Heat Pump 380-415V ~ 3N ~ 50/60Hz

Potencia 25 ÷ 276,0 kW

Especificaciones unidades

HP			28	30	32	34	36
Model			AV5-X780W/V2GN1	AV5-X840W/V2GN1	AV5-X895W/V2GN1	AV5-X950W/V2GN1	AV5-X1000W/V2GN1
Combination type			10HP+18HP	10HP+20HP	10HP+22HP	12HP+22HP	18HP×2
Power supply			13 phase, 380-415V,	14 phase, 380-415V,	15 phase, 380-415V,	16 phase, 380-415V,	17 phase, 380-415V,
Cooling ¹	Capacity	kW	78	84	89.5	95	100
		kBtu/h	266.1	286.6	305.3	324.1	341.2
	Power input	kW	19.04	20.73	22.67	24.23	25.64
	EER	KW/KW	4.1	4.05	3.95	3.92	3.9
Heating ²	Capacity	kW	87.5	94.5	100.5	106.5	112
		kBtu/h	298.6	322.4	342.9	363.4	382.2
	Power input	kW	19.12	21.23	23.06	24.77	26.35
	COP	KW/KW	4.58	4.45	4.36	4.3	4.25
Connected indoor units	Total capacity		50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit
Compressors	AaxiAuA quantity		46	50	53	56	59
	Type		DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		3	3	3	3	4
	Oil type		FV68H	FV68H	FV68H	FV68H	FV68H
	Start-up Aethod		Soft start	Soft start	Soft start	Soft start	Soft start
Fans	Type		Propeller	Propeller	Propeller	Propeller	Propeller
	Outdoor type		DC	DC	DC	DC	DC
	Quantity		3	3	3	3	4
	Outdoor input	W	580+(520+440)	580+(550+430)	580+(550+430)	580+(550+430)	(520+440)+(520+440)
	Outdoor output	W	465+(420+350)	465+(440+350)	465+(440+350)	465+(440+350)	(420+350)+(420+350)
	Airflow rate	m3/h	28000	28000	28000	28000	32000
	Static pressure	Pa (in. W.G.)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)
		Pa (in. W.G.)	20-60 (0.08-0.24)	20-60 (0.08-0.24)	20-60 (0.08-0.24)	20-60 (0.08-0.24)	20-60 (0.08-0.24)
Refrigerant	Drive type		Direct	Direct	Direct	Direct	Direct
	Type		R410A	R410A	R410A	R410A	R410A
Pipe connections ³	Factory charge	kg (lbs.)	9+13 (20+29)	9+16 (20+35)	9+16 (20+35)	11+16 (24+35)	13×2 (29×2)
	Liquid pipe	mm (in.)	Φ19.1 (Φ3/4)	Φ19.1 (Φ3/4)	Φ19.1 (Φ3/4)	Φ19.1 (Φ3/4)	Φ19.1 (Φ3/4)
	Gas pipe	mm (in.)	Φ31.8 (Φ1-1/4)	Φ31.8 (Φ1-1/4)	Φ31.8 (Φ1-1/4)	Φ31.8 (Φ1-1/4)	Φ38.1 (Φ1-1/2)
	Oil balance pipe	mm (in.)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)
Sound pressure level ⁴	dB(A)	65	65	65	65	66	
Net dimensions (W×H×D)	mm	(990×1635×790)+(1340×1635×790)					(1340×1635×790)×2
Packed diAensions (W×H×D)	mm	(1090×1805×860)+(1405×1805×855)					(1405×1805×855)×2
Net weight	kg (lbs.)	219+305 (483+673)	219+340 (483+750)	219+340 (483+750)	237+340 (523+750)	305×2 (673×2)	
Gross weight	kg (lbs.)	234+323 (516+712)	234+358 (516+790)	234+358 (516+790)	252+358 (556+790)	323×2 (712×2)	
Operating teAperature range	°C (°F)	Cooling: -5 to 48 (23 to 118.4); heating: -20 to 24 (-4 to 75.2)					
Safety devices	High/low pressure switch, fan driver overload protector, overcurrent relay, inverter overload protector, overvoltage protector						
Standard accessories	Installation Anual, operation Anual, connection pipes, clamps						

HP			38		40		42		44		46	
Model			AV5-X1065W/V2GN1		AV5-X1115W/V2GN1		AV5-X1175W/V2GN1		AV5-X1230W/V2GN1		AV5-X1285W/V2GN1	
Combination type			16HP+22HP		18HP+22HP		20HP+22HP		22HP×2		12HP×2+22HP	
Power supply			18 phase, 380-415V,		19 phase, 380-415V,		20 phase, 380-415V,		21 phase, 380-415V,		22 phase, 380-415V, 50/60Hz	
Cooling ¹	Capacity	kW	106,5		111,5		117,5		123		128,5	
		kBtu/h	363,3		380,4		400,9		419,6		438,4	
	Power input	kW	27,42		29,26		30,95		32,89		32,03	
	EER	KW/KW	3,88		3,81		3,8		3,74		4,01	
Heating ²	Capacity	kW	119		125		132		138		144	
		kBtu/h	406		426,5		450,3		470,8		491,4	
	Power input	kW	27,99		30,3		32,41		34,24		32,43	
	COP	KW/KW	4,25		4,13		4,07		4,03		4,44	
Connected indoor units	Total capacity		50-130% of outdoor unit		50-130% of outdoor unit		50-130% of outdoor unit		50-130% of outdoor unit		50-130% of outdoor unit	
	AaxiAuA quantity		63		64		64		64		64	
Compressors	Type		DC inverter		DC inverter		DC inverter		DC inverter		DC inverter	
	Quantity		4		4		4		4		4	
	Oil type		FV68H		FV68H		FV68H		FV68H		FV68H	
	Start-up Aethod		Soft start		Soft start		Soft start		Soft start		Soft start	
Fans	Type		Propeller		Propeller		Propeller		Propeller		Propeller	
	Outdoor type		DC		DC		DC		DC		DC	
	Quantity		4		4		4		4		4	
	Outdoor input	W	(360+290)+(550+430)		(520+440)+(550+430)		(550+430)+(550+430)		(550+430)+(550+430)		(580)+(580)+(550+430)	
	Outdoor output	W	(290+230)+(440+350)		(420+350)+(440+350)		(440+350)+(440+350)		(440+350)+(440+350)		(465)+(465)+(440+350)	
	Airflow rate	m ³ /h	30000		32000		32000		32000		40000	
	Static pressure	Pa (in. W.G.)	0-20 (0-0.08) (default)		0-20 (0-0.08) (default)		0-20 (0-0.08) (default)		0-20 (0-0.08) (default)		0-20 (0-0.08) (default)	
		Pa (in. W.G.)	20-60 (0.08-0.24)		20-60 (0.08-0.24)		20-60 (0.08-0.24)		20-60 (0.08-0.24)		20-60 (0.08-0.24) (custoAized)	
	Drive type		Direct		Direct		Direct		Direct		Direct	
	Refrigerant	Type		R410A		R410A		R410A		R410A		R410A
Factory charge		kg (lbs.)	13+16 (29+35)		13+16 (29+35)		16×2 (35×2)		16×2 (35×2)		11×2+16 (24×2+35)	
Pipe connections ³	Liquid pipe	mm (in.)	Φ19.1 (Φ3/4)		Φ19.1 (Φ3/4)		Φ19.1 (Φ3/4)		Φ19.1 (Φ3/4)		Φ19.1 (Φ3/4)	
	Gas pipe	mm (in.)	Φ38.1 (Φ1-1/2)		Φ38.1 (Φ1-1/2)		Φ38.1 (Φ1-1/2)		Φ38.1 (Φ1-1/2)		Φ38.1 (Φ1-1/2)	
	Oil balance pipe	mm (in.)	Φ6.35 (Φ1/4)		Φ6.35 (Φ1/4)		Φ6.35 (Φ1/4)		Φ6.35 (Φ1/4)		Φ6.35 (Φ1/4)	
	Sound pressure level ⁴	dB(A)	66		66		66		66		66	
Net dimensions (W×H×D)		mm	(1340×1635×790)×2		(1340×1635×790)×3		(1340×1635×790)×4		(1340×1635×790)×5		(990×1635×790)×2+	
Packed diAensions (W×H×D)		mm	297+340 (655+750)		305+340 (673+750)		(1405×1805×855)×2		(1405×1805×855)×2		(1090×1805×860)×2+	
Net weight		kg (lbs.)	305×2 (673×2)		305×2 (673×2)		340×2 (750×2)		340×2 (750×2)		237×2+340 (523×2+750)	
Gross weight		kg (lbs.)	323×2 (712×2)		323×2 (712×2)		358×2 (790×2)		358×2 (790×2)		252×2+358 (556×2+790)	
Operating teAperature range			°C (°F)		Cooling: -5 to 48 (23 to 118.4); heating: -20 to 24 (-4 to 75.2)							
Safety devices			High/low pressure switch, fan driver overload protector, overcurrent relay, inverter overload protector, overvoltage protector									
Standard accessories			Installation Anual, operation Anual, connection pipes, clamps									

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's stop valve.
- 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.



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AV5 7-80 (TR)

Heat Pump 380-415V ~ 3N ~ 50/60Hz

Potencia 25 ÷ 276,0 kW

Especificaciones unidades

HP		48	50	52	54	56
Model		AV5-X1345W/V2GN1	AV5-X1395W/V2GN1	AV5-X1455W/V2GN1	AV5-X1510W/V2GN1	AV5-X1565W/V2GN1
Combination type		10HP+16HP+22HP	10HP+18HP+22HP	10HP+20HP+22HP	10HP+22HP×2	12HP+22HP×2
Power supply		23 phase, 380-415V,	24 phase, 380-415V,	25 phase, 380-415V,	26 phase, 380-415V,	27 phase, 380-415V,
Cooling ¹	Capacity	kW	134,5	139,5	145,5	151
	kBtu/h		458,8	475,9	496,4	515,1
	Power input	kW	33,64	35,49	37,17	39,11
	EER	KW/KW	4	3,93	3,91	3,86
Heating ²	Capacity	kW	150,5	156,5	163,5	169,5
	kBtu/h		513,5	534	557,8	578,3
	Power input	kW	33,93	36,24	38,36	40,19
	COP	KW/KW	4,44	4,32	4,26	4,22
Connected indoor units	Total capacity	50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit
	AaxiAua quantity	64	64	64	64	64
Compressors	Type	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
	Quantity	5	5	5	5	5
	Oil type	FV68H	FV68H	FV68H	FV68H	FV68H
	Start-up Aethod	Soft start	Soft start	Soft start	Soft start	Soft start
Fans	Type	Propeller	Propeller	Propeller	Propeller	Propeller
	Outdoor type	DC	DC	DC	DC	DC
	Quantity	5	5	5	5	5
	Outdoor input	W	(580)+(360+290)+	(580)+(520+440)+	(580)+(550+430)+	(580)+(550+430)+
	Outdoor output	W	(465)+(290+230)+	(465)+(240+350)+	(465)+(440+350)+	(465)+(440+350)+
	Airflow rate	m3/h	42000	44000	44000	44000
	Static pressure	Pa (in. W.G.)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)
	Pa (in. W.G.)	20-60 (0.08-0.24)	20-60 (0.08-0.24)	20-60 (0.08-0.24)	20-60 (0.08-0.24)	20-60 (0.08-0.24)
Refrigerant	Drive type	Direct	Direct	9+16×2 (20+35×2)	Direct	Direct
	Type	R410A	R410A	Φ22.2 (Φ7/8)	R410A	R410A
	Factory charge	kg (lbs.)	9+13+16 (20+29+35)	9+13+16 (20+29+35)	9+16×2 (20+35×2)	11+16×2 (24+35×2)
Pipe connections ³	Liquid pipe	mm (in.)	Φ19.1 (Φ3/4)	Φ19.1 (Φ3/4)	Φ19.1 (Φ3/4)	Φ22.2 (Φ7/8)
	Gas pipe	mm (in.)	Φ38.1 (Φ1-1/2)	Φ38.1 (Φ1-1/2)	Φ38.1 (Φ1-1/2)	Φ41.3 (Φ1-5/8)
	Oil balance pipe	mm (in.)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)
Sound pressure level ⁴		dB(A)	67	67	67	67
Net dimensions (W×H×D)		mm	(990×1635×790)+(1340×1635×790)×2			
Packed dimensions (W×H×D)		mm	(1090×1805×860)+(1405×1805×855)×2			
Net weight		kg (lbs.)	219+297+340	219+305+340	219+340×2	219+340×2
Gross weight		kg (lbs.)	234+315+358	234+323+358	234+358×2	234+358×2
Operating teAperature range		°C (°F)	Cooling: -5 to 48 (23 to 118.4); heating: -20 to 24 (-4 to 75.2)			
Safety devices			High/low pressure switch, fan driver overload protector, overcurrent relay, inverter overload protector, overvoltage protector			
Standard accessories			Installation Annual, operation Annual, connection pipes, clamps			

HP		58	60	62	64	66
Model		AV5-X1615W/V2GN1	AV5-X1680W/V2GN1	AV5-X1730W/V2GN1	AV5-X1790W/V2GN1	AV5-X1845W/V2GN1
Combination type		18HP×2+22HP	16HP×2+22HP	18HP×2+22HP×2	20HP×2+22HP×2	22HP×3
Power supply		28 phase, 380-415V,	29 phase, 380-415V,	30 phase, 380-415V,	31 phase, 380-415V,	32 phase, 380-415V,
Cooling ¹	Capacity	kW	161,5	168	173	179
	kBtu/h		551	573,1	590,2	610,7
	Power input	kW	42,08	43,86	45,71	47,4
	EER	KW/KW	3,84	3,83	3,78	3,74
Heating ²	Capacity	kW	181	188	194	201
	kBtu/h		617,6	641,4	661,9	685,7
	Power input	kW	43,47	45,11	47,42	49,53
	COP	KW/KW	4,16	4,17	4,09	4,06
Connected indoor units	Total capacity	50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit
	AaxiAua quantity	64	64	64	64	64
Compressors	Type	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
	Quantity	6	6	6	6	6
	Oil type	FV68H	FV68H	FV68H	FV68H	FV68H
	Start-up Aethod	Soft start	Soft start	Soft start	Soft start	Soft start
Fans	Type	Propeller	Propeller	Propeller	Propeller	Propeller
	Outdoor type	DC	DC	DC	DC	DC
	Quantity	6	6	6	6	6
	Outdoor input	W	(520+440)+(520+440)+	(360+290)+(550+430)+	(520+440)+(550+430)+	(550+430)+(550+430)+
	Outdoor output	W	(420+350)+(420+350)+	(290+230)+(440+350)+	(420+350)+(440+350)+	(440+350)+(440+350)+
	Airflow rate	m3/h	48000	46000	48000	48000
	Static pressure	Pa (in. W.G.)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)
	Pa (in. W.G.)	20-60 (0.08-0.24)	20-60 (0.08-0.24)	20-60 (0.08-0.24)	20-60 (0.08-0.24)	20-60 (0.08-0.24)
Refrigerant	Drive type	Direct	Direct	Direct	Direct	Direct
	Type	R410A	R410A	R410A	R410A	R410A
	Factory charge	kg (lbs.)	13×2+16 (29×2+35)	13+16×2 (29+35×2)	16×3 (35×3)	16×3 (35×3)
Pipe connections ³	Liquid pipe	mm (in.)	Φ22.2 (Φ7/8)	Φ22.2 (Φ7/8)	Φ22.2 (Φ7/8)	Φ22.2 (Φ7/8)
	Gas pipe	mm (in.)	Φ41.3 (Φ1-5/8)	Φ41.3 (Φ1-5/8)	Φ41.3 (Φ1-5/8)	Φ41.3 (Φ1-5/8)
	Oil balance pipe	mm (in.)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)
Sound pressure level ⁴		dB(A)	68	68	68	68
Net dimensions (W×H×D)		mm	(1340×1635×790)×3			
Packed dimensions (W×H×D)		mm	(1405×1805×855)×3			
Net weight		kg (lbs.)	305×2+340 (673×2+750)	297+340×2 (655+750×2)	305+340×2 (673+750×2)	340×3 (750×3)
Gross weight		kg (lbs.)	323×2+358 (712×2+323)	315+358×2 (695+790×2)	323+358×2 (712+790×2)	358×3 (790×3)
Operating teAperature range		°C (°F)	Cooling: -5 to 48 (23 to 118.4); heating: -20 to 24 (-4 to 75.2)			
Safety devices			High/low pressure switch, fan driver overload protector, overcurrent relay, inverter overload protector, overvoltage protector			
Standard accessories			Installation manual, operation Annual, connection pipes, clamps			

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's stop valve.
- 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.

Unidades exteriores expansión directa de refrigerante variable VRF

AV5 7-80 (TR)

Heat Pump 380-415V ~ 3N ~ 50/60Hz

Potencia 25 ÷ 276,0 kW

Especificaciones unidades

HP		68	70	72	74	76
Model		AV5-X1900W/V2GN1	AV5-X1960W/V2GN1	AV5-X2010W/V2GN1	AV5-X2070W/V2GN1	AV5-X2125W/V2GN1
Combination type		12HP×2+22HP×2	10HP+16HP+22HP×2	10HP+18HP+22HP×2	10HP+20HP+22HP×2	10HP+22HP×3
Power supply		33 phase, 380-415V,	34 phase, 380-415V,	35 phase, 380-415V,	36 phase, 380-415V,	37 phase, 380-415V,
Cooling ¹	Capacity	190	196	201	207	212,5
	kW	648,2	668,6	685,7	706,2	724,9
	kBtu/h	48,47	50,09	51,93	53,62	55,55
	EER	3,92	3,91	3,87	3,86	3,83
Heating ²	Capacity	213	219,5	225,5	232,5	238,5
	kW	726,8	748,9	769,4	793,2	813,7
	kBtu/h	46,13	51,06	53,36	55,48	57,31
	COP	4,62	4,3	4,23	4,19	4,16
Connected indoor units	Total capacity	50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit
	AaxiAuA quantity	64	64	64	64	64
Compressors	Type	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
	Quantity	6	7	7	7	7
	Oil type	FV68H	FV68H	FV68H	FV68H	FV68H
	Start-up Aethod	Soft start	Soft start	Soft start	Soft start	Soft start
Fans	Type	Propeller	Propeller	Propeller	Propeller	Propeller
	Outdoor type	DC	DC	DC	DC	DC
	Quantity	6	7	7	7	7
	Outdoor input	W	(580)+(580)+	(580)+(360+290)+	(580)+(520+440)+	(580)+(550+430)+
	Outdoor output	W	(465)+(465)+	(465)+(290+230)+	(465)+(420+350)+	(465)+(440+350)+
	Airflow rate	m3/h	56000	58000	60000	60000
	Static pressure	Pa (in. W.G.)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)
	Pa (in. W.G.)	20-60 (0.08-0.24)	20-60 (0.08-0.24)	20-60 (0.08-0.24)	20-60 (0.08-0.24)	20-60 (0.08-0.24)
Refrigerant	Type	Direct	Direct	Direct	Direct	Direct
	Factory charge	R410A	R410A	R410A	R410A	R410A
Pipe connections ³	Liquid pipe	kg (lbs.)	11×2+16×2 (24×2+35×2)	9+13+16×2	9+16×3	9+16×3
	Gas pipe	mm (in.)	Φ25.4 (Φ1)	Φ25.4 (Φ1)	Φ25.4 (Φ1)	Φ25.4 (Φ1)
	Oil balance pipe	mm (in.)	Φ44.5 (Φ1-3/4)	Φ44.5 (Φ1-3/4)	Φ44.5 (Φ1-3/4)	Φ44.5 (Φ1-3/4)
	mm (in.)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)
Sound pressure level ⁴		68	69	69	70	71
Net dimensions (W×H×D)		(990×1635×790)×2+(1340×1635×790)×2				
Packed dimensions (W×H×D)		(1090×1805×860)×2+(1405×1805×855)×2				
Net weight	kg (lbs.)	237×2+340×2	219+297+340×2	219+305+340×2	219+340×3	219+340×3
Gross weight	kg (lbs.)	252×2+358×2	234+315+358×2	234+323+358×2	234+358×3	234+358×3
Operating teAperature range	°C (°F)	Cooling: -5 to 48 (23 to 118.4); heating: -20 to 24 (-4 to 75.2)				
Safety devices		High/low pressure switch, fan driver overload protector, overcurrent relay, inverter overload protector, overvoltage protector				
Standard accessories		Installation manual, operation Aannual, connection pipes, clamps				

HP		78	80	82
Model		AV5-X2180W/V2GN1	AV5-X2230W/V2GN1	AV5-X2295W/V2GN1
Combination type		12HP+22HP×3	18HP×2+22HP×2	16HP+22HP×3
Power supply		38 phase, 380-415V,	39 phase, 380-415V,	40 phase, 380-415V,
Cooling ¹	Capacity	218	223	229,5
	kW	743,7	760,8	782,9
	kBtu/h	57,12	58,53	60,31
	EER	3,82	3,81	3,81
Heating ²	Capacity	244,5	250	257
	kW	834,2	853	876,8
	kBtu/h	59,02	60,6	62,23
	COP	4,14	4,13	4,13
Connected indoor units	Total capacity	50-130% of outdoor unit	50-130% of outdoor unit	50-130% of outdoor unit
	AaxiAuA quantity	64	64	64
Compressors	Type	DC inverter	DC inverter	DC inverter
	Quantity	7	8	8
	Oil type	FV68H	FV68H	FV68H
	Start-up Aethod	Soft start	Soft start	Soft start
Fans	Type	Propeller	Propeller	Propeller
	Outdoor type	DC	DC	DC
	Quantity	7	8	8
	Outdoor input	W	(580)+(550+430)+	(520+440)+(520+440)+
	Outdoor output	W	(465)+(440+350)+	(360+290)+(550+430)+
	Airflow rate	m3/h	(420+350)+(420+350)+	(290+230)+(440+350)+
	Static pressure	Pa (in. W.G.)	60000	64000
	Pa (in. W.G.)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)	0-20 (0-0.08) (default)
Refrigerant	Type	Direct	Direct	Direct
	Factory charge	R410A	R410A	R410A
Pipe connections ³	Liquid pipe	kg (lbs.)	11×16×3	13×16×3
	Gas pipe	mm (in.)	Φ25.4 (Φ1)	Φ25.4 (Φ1)
	Oil balance pipe	mm (in.)	Φ44.5 (Φ1-3/4)	Φ44.5 (Φ1-3/4)
	mm (in.)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)	Φ6.35 (Φ1/4)
Sound pressure level ⁴		69	70	70
Net dimensions (W×H×D)		(990×1635×790)+	(1340×1635×790)×4	(1340×1635×790)×4
Packed dimensions (W×H×D)		(1090×1805×860)+	(1405×1805×855)×4	(1405×1805×855)×4
Net weight	kg (lbs.)	237+340×3	305×2+340×2	297+340×3
Gross weight	kg (lbs.)	252+358×3	323×2+358×2	315+358×3
Operating teAperature range	°C (°F)	Cooling: -5 to 48 (23 to 118.4); heating: -20 to 24 (-4 to 75.2)		
Safety devices		High/low pressure switch, fan driver overload protector, overcurrent relay, inverter		
Standard accessories		Installation manual, operation manual, connection pipes, clamps		

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's stop valve.
- 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.

AV5 7-80 (TR)

Heat Pump 380-415V ~ 3N ~ 50/60Hz

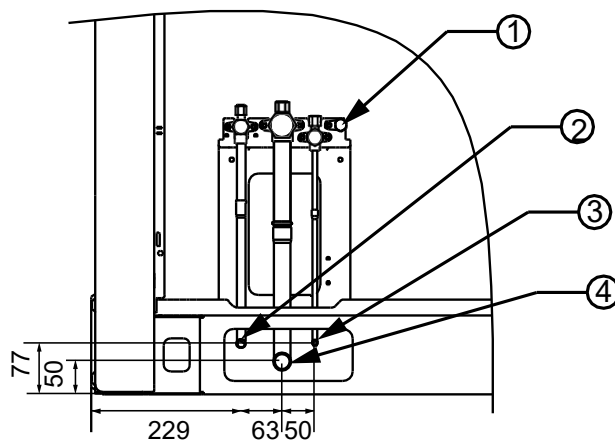
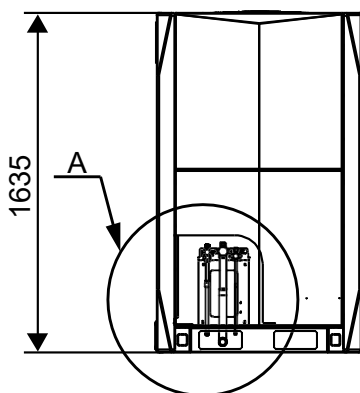
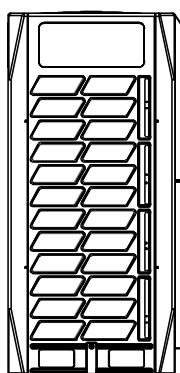
Unidades exteriores expansión directa de refrigerante variable VRF

Potencia 25 ÷ 276,0 kW

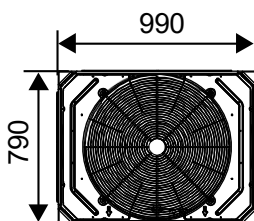
Dimension

Single Units

AV5-X252W/V2GN1 / AV5-X280W/V2GN1 / AV5-X335W/V2GN1



Detail A



Legend		
No.	Parts name	Remarks
1	Check port	The check port is used to measure system pressure, charge refrigerant and vacuumize the system.
2	Liquid pipe connection port	Φ12.7 brazed connection on MV5-X252W/V2GN1 / MV5-X280W/V2GN1 Φ15.9 brazed connection on MV5-X335W/V2GN1
3	Oil balance pipe connection port	The oil balance pipe runs between outdoor units. Φ8 brazed connection.
4	Gas pipe connection port	Φ25.4 brazed connection on MV5-X252W/V2GN1 / MV5-X280W/V2GN1 Φ28.6 brazed connection on MV5-X335W/V2GN1

AV5 7-80 (TR)

Heat Pump 380-415V ~ 3N ~ 50/60Hz

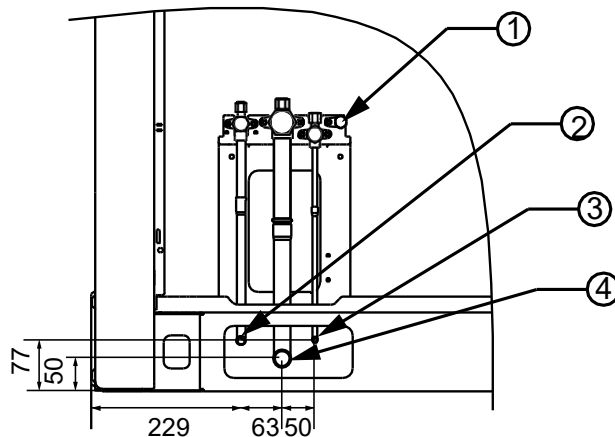
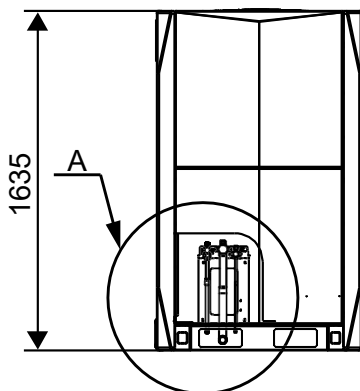
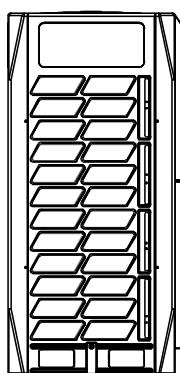
Unidades exteriores expansión directa de refrigerante variable VRF

Potencia 25 ÷ 276,0 kW

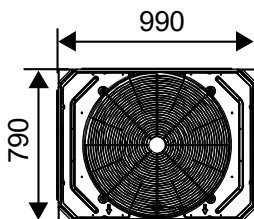
Dimension

Single Units

AV5-X252W/V2GN1 / AV5-X280W/V2GN1 / AV5-X335W/V2GN1



Detail A



Legend		
No.	Parts name	Remarks
1	Check port	The check port is used to measure system pressure, charge refrigerant and vacuumize the system.
2	Liquid pipe connection port	Φ12.7 brazed connection on MV5-X252W/V2GN1 / MV5-X280W/V2GN1 Φ15.9 brazed connection on MV5-X335W/V2GN1
3	Oil balance pipe connection port	The oil balance pipe runs between outdoor units. Φ8 brazed connection.
4	Gas pipe connection port	Φ25.4 brazed connection on MV5-X252W/V2GN1 / MV5-X280W/V2GN1 Φ28.6 brazed connection on MV5-X335W/V2GN1

AV5 7-80 (TR)

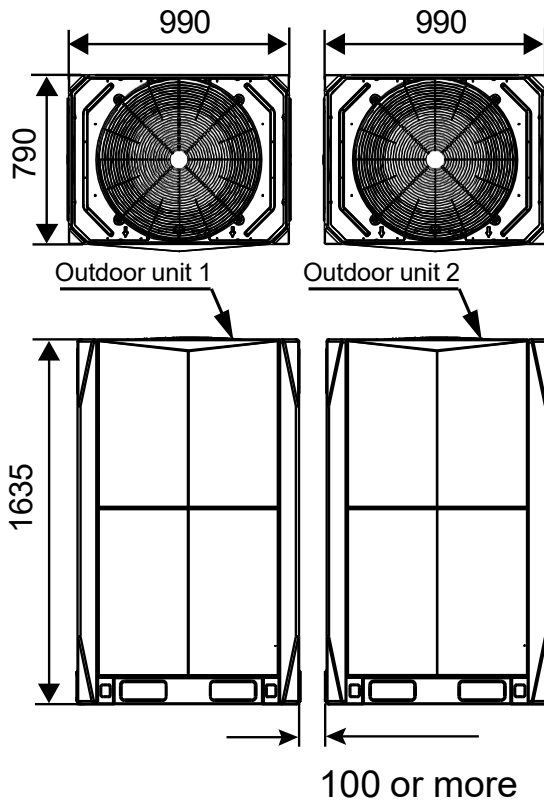
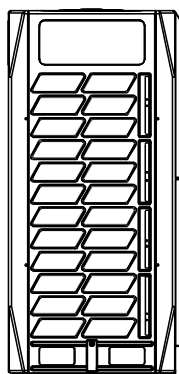
Heat Pump 380-415V ~ 3N ~ 50/60Hz

Unidades exteriores expansión directa de refrigerante variable VRF

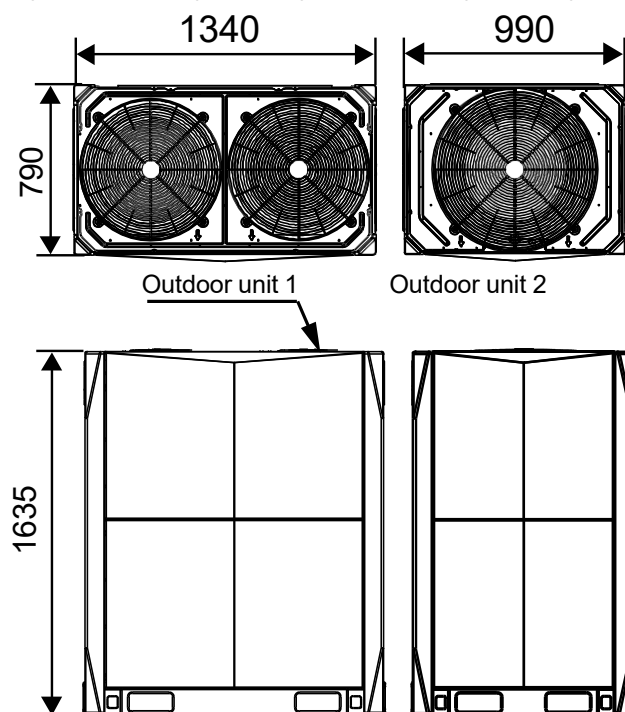
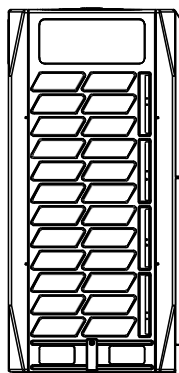
Potencia 25 ÷ 276,0 kW

Combinations of Units

AV5-X670W/V2GN1



AV5-X730W/V2GN1 / AV5-X780W/V2GN1 / AV5-X840W/V2GN1 / AV5-X895W/V2GN1 / AV5-X950W/V2GN1



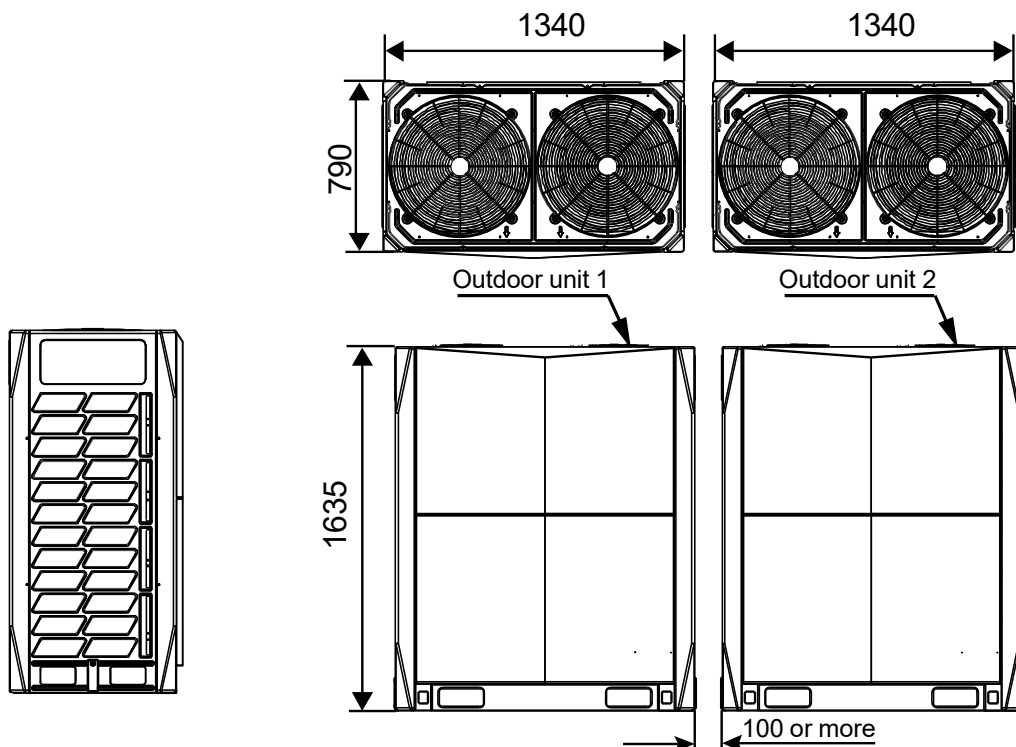
AV5 7-80 (TR)

Heat Pump 380-415V ~ 3N ~ 50/60Hz

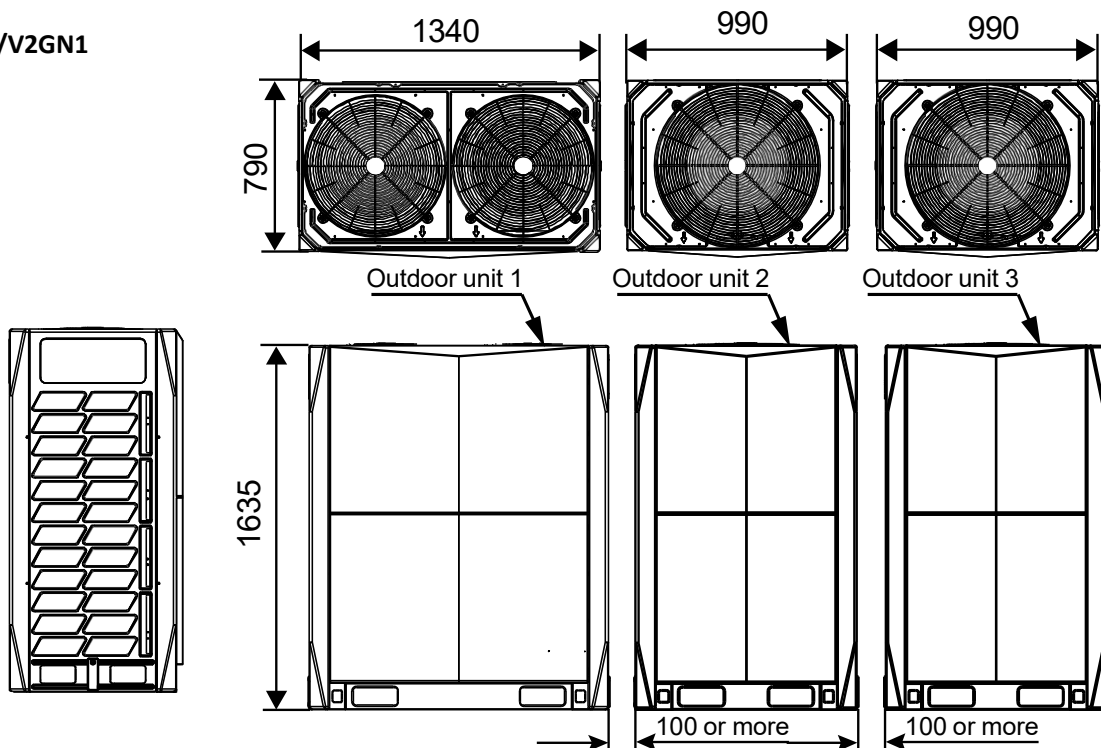
Unidades exteriores expansión directa de refrigerante variable VRF

Potencia 25 ÷ 276,0 kW

AV5-X1000W/V2GN1 / AV5-X1065W/V2GN1 / AV5-X1115W/V2GN1 / AV5-X1175W/V2GN1 / AV5-X1230W/V2GN1



AV5-X1285W/V2GN1



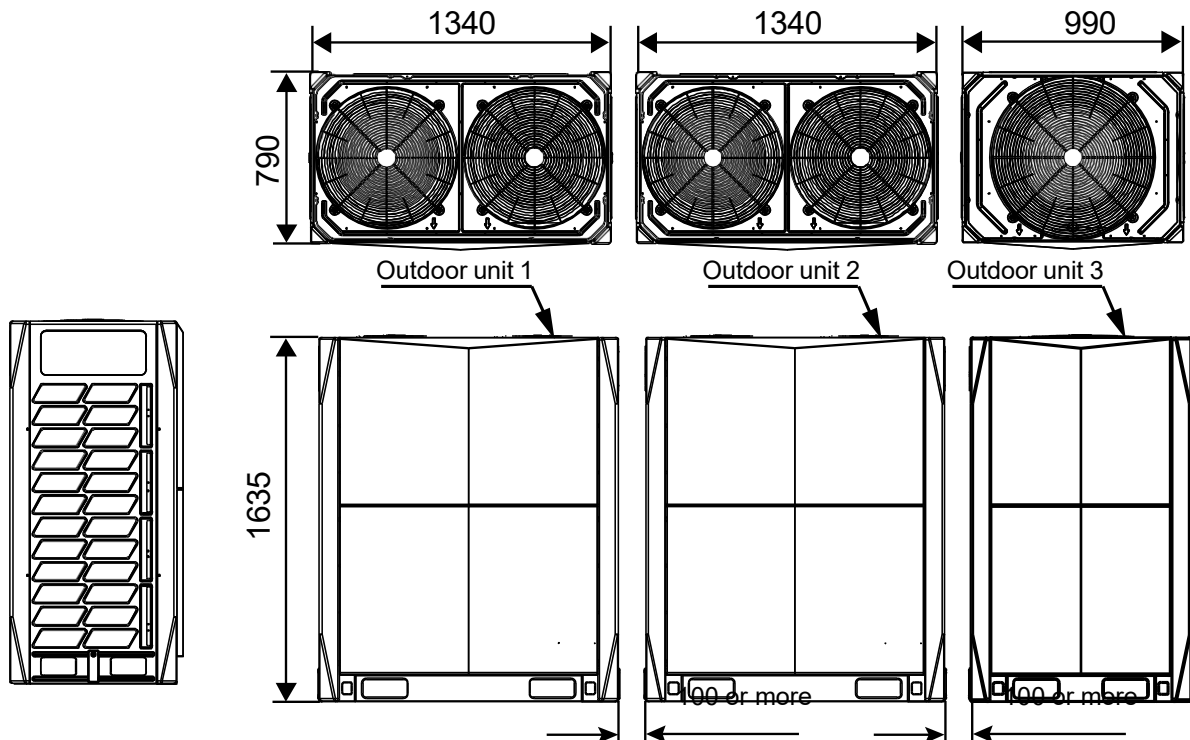
AV5 7-80 (TR)

Heat Pump 380-415V ~ 3N ~ 50/60Hz

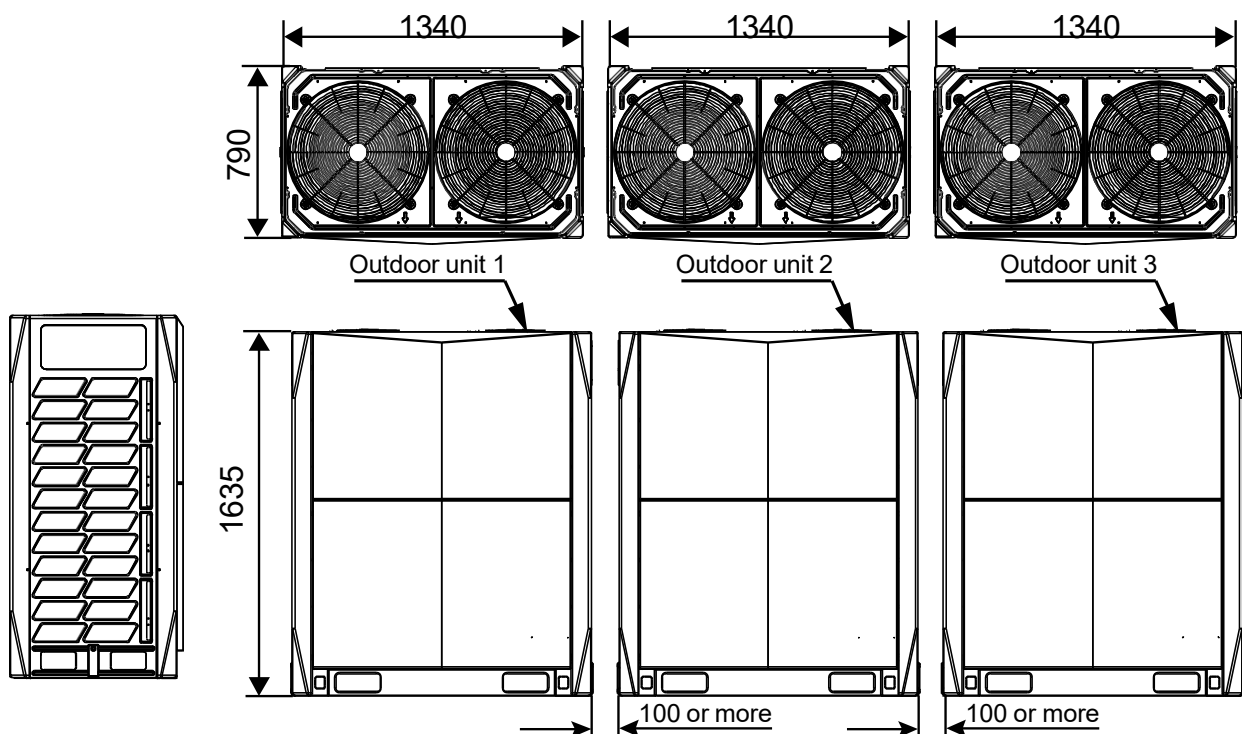
Unidades exteriores expansión directa de refrigerante variable VRF

Potencia 25 ÷ 276,0 kW

AV5-X1345W/V2GN1 / AV5-X1395W/V2GN1 / AV5-X1455W/V2GN1 / AV5-X1510W/V2GN1 / AV5-X1565W/V2GN1



AV5-X1615W/V2GN1 / AV5-X1680W/V2GN1 / AV5-X1730W/V2GN1 / AV5-X1790W/V2GN1 / AV5-X1845W/V2GN1



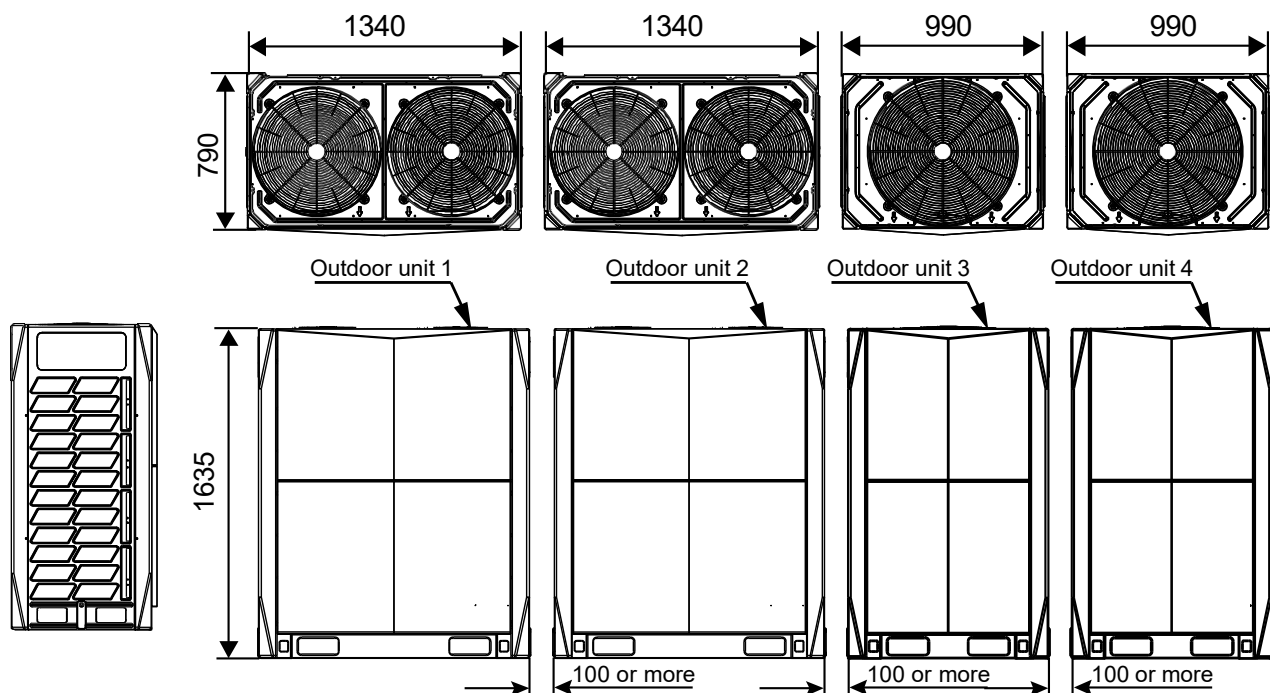
AV5 7-80 (TR)

Heat Pump 380-415V ~ 3N ~ 50/60Hz

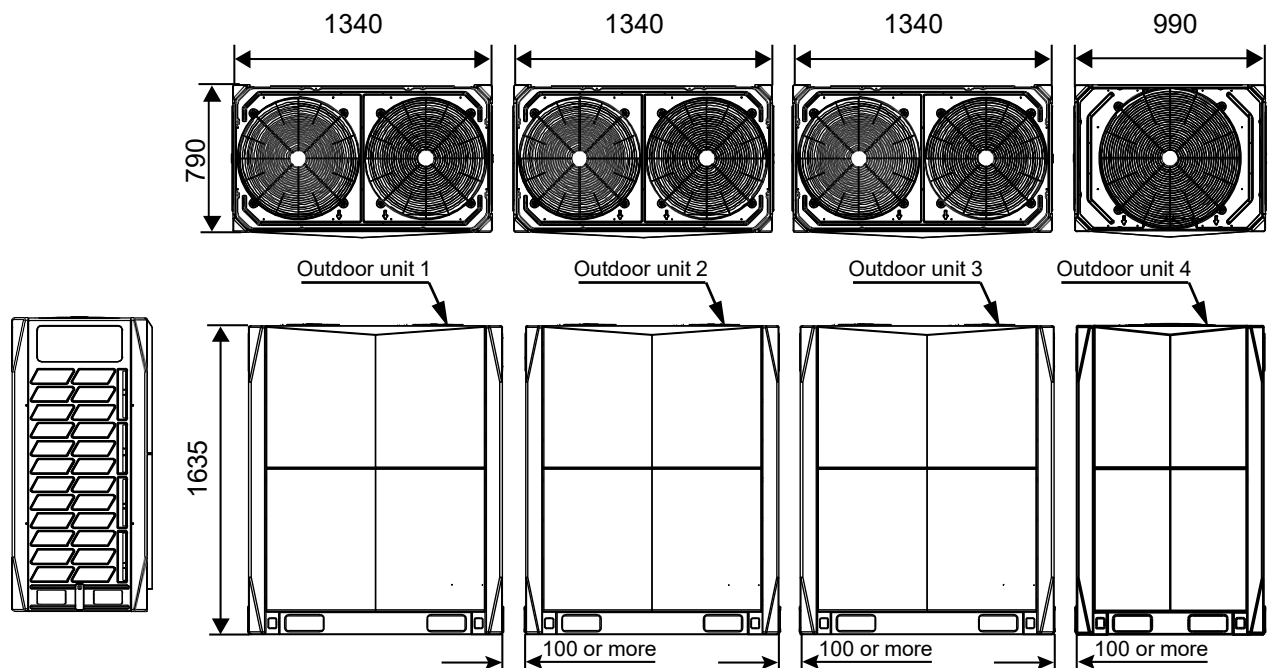
Unidades exteriores expansión directa de refrigerante variable VRF

Potencia 25 ÷ 276,0 kW

AV5-X1900W/V2GN1



AV5-X1960W/V2GN1 / AV5-X2010W/V2GN1 / AV5-X2070W/V2GN1 / AV5-X2125W/V2GN1 / AV5-X2180W/V2GN1



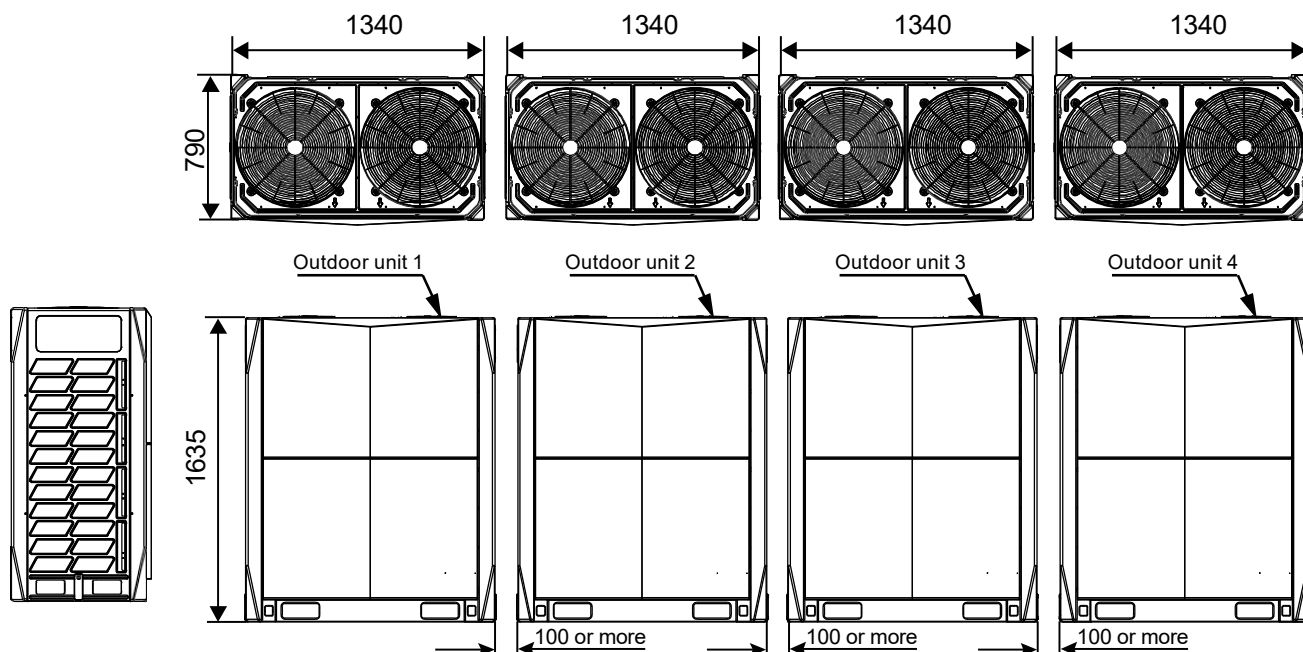
AV5 7-80 (TR)

Heat Pump 380-415V ~ 3N ~ 50/60Hz

Unidades exteriores expansión directa de refrigerante variable VRF

Potencia 25 ÷ 276,0 kW

AV5-X2230W/V2GN1 / AV5-X2295W/V2GN1 / AV5-X2345W/V2GN1 / AV5-X2405W/V2GN1 / AV5-X2460W/V2GN1



AV5 7-80 (TR)

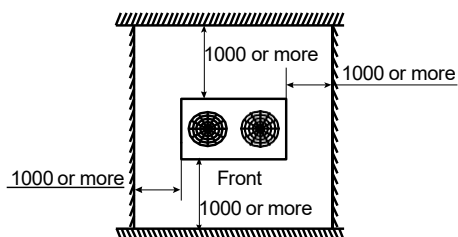
Heat Pump 380-415V ~ 3N ~ 50/60Hz

Unidades exteriores expansión directa de refrigerante variable VRF

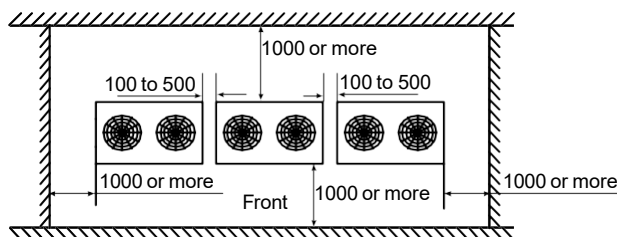
Potencia 25 ÷ 276,0 kW

Installation Space Requirements

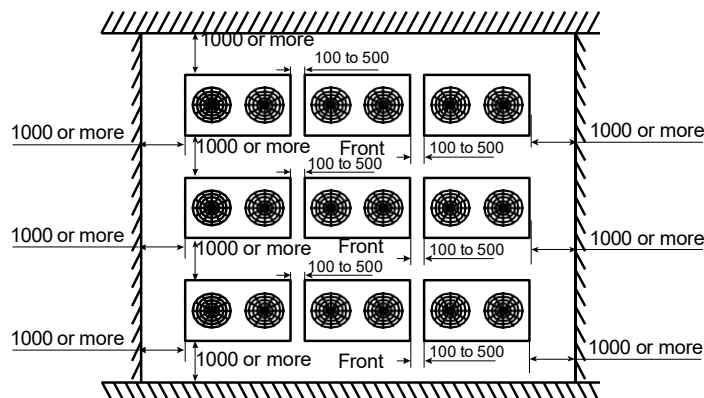
For single unit installation



For single row installation

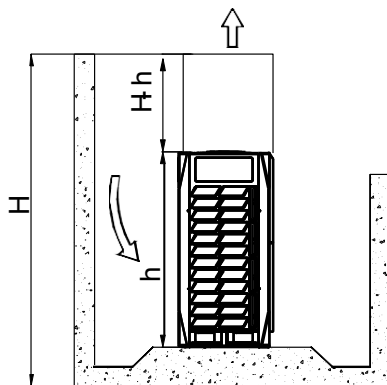


For multi-row installation



Depending on the height of adjacent walls relative to the height of the units, ducting may be required to ensure proper air discharge. In the situation depicted in Figure 2-3.4, the vertical section of ducting should be at least H-h high.

Figure 2-3.4: Top of unit below top of adjacent wall





Aermec se reserva el derecho de efectuar, en cualquier momento, todas las modificaciones que considere necesarias para mejorar el producto, modificando eventualmente los datos técnicos correspondientes.

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