

TADIRAN

Inverter Series-R32 Multi Zone

Combination Table

Multi DC Outdoor Unit	Suggested Combination											
1 drive 2 Multi Inverter 1:2AAR	One Unit		Two Units									
	7		7+7	—								
	9		7+9	—								
	12		9+9	—								
	18		—	—								
1 drive 2 Multi Inverter 1:2ABR	One Unit		Two Units									
	7		7+7	9+12								
	9		7+9	—								
	12		7+12	—								
	18		9+9	—								
1 drive 3 Multi Inverter 1:3AAR	One Unit		Two Units		Three Units							
	18	7+7	9+12	7+7+7	—	—						
	—	7+9	9+18	7+7+9	—	—						
	—	7+12	12+12	7+7+12	—	—						
	—	7+18	—	7+9+9	—	—						
	—	9+9	—	9+9+9	—	—						
1 drive 3 Multi Inverter 1:3ABR	One Unit		Two Units		Three Units							
	18	7+7	9+18	7+7+7	7+9+18	—						
	—	7+9	12+12	7+7+9	7+12+12	—						
	—	7+12	12+18	7+7+12	9+9+9	—						
	—	7+18	—	7+7+18	9+9+12	—						
	—	9+9	9+12	7+9+9	9+12+12	—						
1 drive 4 Multi Inverter 1:4AR	One Unit		Two Units		Three Units		Four Units					
	24	7+7	9+18	7+7+7	7+9+18	9+12+18	7+7+7+7	7+7+12+12	9+9+9+9	—	—	
	—	7+9	9+24	7+7+9	7+9+24	9+12+24	7+7+7+9	7+7+12+18	9+9+9+12	—	—	
	—	7+12	12+12	7+7+12	7+12+18	12+12+12	7+7+7+12	7+9+9+9	9+9+9+18	—	—	
	—	7+18	12+18	7+7+18	7+12+18	12+12+18	7+7+7+18	7+9+9+12	9+9+12+12	—	—	
	—	7+24	12+24	7+7+24	7+12+24	—	7+7+9+9	7+9+9+18	9+12+12+12	—	—	
	—	9+9	18+18	7+9+9	9+9+9	—	7+7+9+12	7+9+12+18	—	—	—	
	—	9+12	—	7+9+12	9+9+12	—	7+7+9+18	7+12+12+12	—	—	—	
	—	9+18	—	7+9+18	9+9+18	—	—	—	—	—	—	
	Five Units											
			7+7+7+7+7	7+7+7+12+18	7+9+9+9+12	9+9+12+12+12						
			7+7+7+7+9	7+7+9+9+9	7+9+9+9+18	—						
		7+7+7+7+12	7+7+9+9+12	7+9+9+12+12	—							
		7+7+7+7+18	7+7+9+9+18	7+9+12+12+12	—							
		7+7+7+9+9	7+7+9+12+12	9+9+9+9+9	—							
		7+7+7+9+12	7+7+9+12+18	9+9+9+9+12	—							
		7+7+7+9+18	7+7+12+12+12	9+9+9+9+18	—							
		7+7+7+12+12	7+9+9+9+9	9+9+9+12+12	—							

Inverter Series

Multi Zone



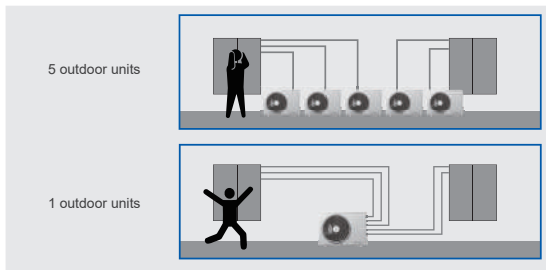
Environmental-friendly Refrigerant R32

The GWP value of R32 is smaller, so the effect on the greenhouse effect is smaller. The ODP value of R32 is 0, so it's no harm to our planet's ozone layer.



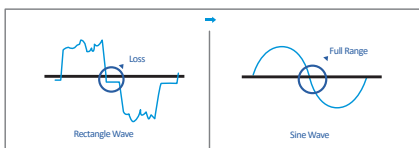
Space-Saving Installation

Up to 5 indoor units can be connected to a single outdoor unit, which reduces the number of outdoor units required so as to save installation space. Besides, each indoor unit can be controlled individually and they even needn't be installed at the same time.



Energy Saving

Cutting-edge DC inverter of sine wave control and active PFC technology realize low noise and economical operation.



Multi Zone series

Outdoor Units



Specification-R32 50Hz DC Inverter



Model	Outdoor Unit	Multi Inverter			
		1 drive 2	1 drive 2	1 drive 3	
System Format					
Capacity	Cooling/Heating	Btu/h kW	13989(6142~15388)/16378(6995~18015) 4.1(1.8~5.1)/4.8(2.05~5.28)	18084(8824~19892)/19107(7541~21017) 5.3(2.0~5.83)/5.6(2.21~6.16)	21154(7506~22895)/22519(8155~24771) 6.2(2.2~6.71)/6.6(2.39~7.26)
Electric Data	Power Supply	V~Hz,Ph	220-240,50,1	220-240,50,1	220-240,50,1
	Cooling/Heating Power Input	W	1240/ 1150	1750/ 1540	1920/ 1780
Performance	Rated Current(cooling&heating)	A	5.4/5	7.6/6.7	8.3/7.8
	SEER/SCOP	WWW	6.16/4.06	7.07/4.08	6.57/4.39
	ERP Energy Efficiency Class		A++/A+	A++/A+	A++/A+
	Air Flow Volume	m ³ /h	2300	2300	3100
Dimension (WxDxH)	Net	mm	800×315×545	800×315×545	834×328×655
	Packing	mm	920×400×620	920×400×620	945×435×725
Weight	Net/Gross	kg	34/37	36/39	44/47
	Liquid Side	mm(inch)	2×6.35(1/4)	2×6.35(1/4)	3×6.35(1/4)
Piping size	Gas Side	mm(inch)	2×9.52(3/8)	2×9.52(3/8)	3×9.52(3/8)
	Max.Pipe Length Between IDU to ODU	m	25	25	30
Max.Height Difference Between ODU to IDU	Cooling/Heating	°C	-15~52/-15~24	-15~52/-15~24	-15~52/-15~24
	Stuffing Quantity	20/40/40H	unit	102/219/292	102/219/292

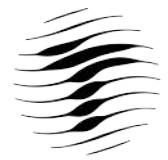
Specification-R32 50Hz DC Inverter



Model	Outdoor Unit	Multi Inverter			
		1 drive 3	1 drive 4	1 drive 5	
System Format					
Capacity	Cooling/Heating	Btu/h kW	26955(7848~29650)/27978(8359~30776) 7.9(2.3~8.69)/8.2(2.45~9.02)	35826(8530~37532)/37532(9110~38214) 10.50(2.5~11.01)/11.00(2.67~11.2)	40944(9451~43332)/44356(10100~44800) 12(2.77~12.7)/13(2.96~13.1)
Electric Data	Power Supply	V~Hz,Ph	220-240,50,1	220-240,50,1	220-240,50,1
	Cooling/Heating Power Input	W	2460/ 2270	3950/3150	4450/3750
Performance	Rated Current(cooling&heating)	A	10.7/9.8	17.5/13.96	19.72/16.62
	SEER/SCOP	WWW	6.30/4.04	6.14/4.06	6.14/4.11
	ERP Energy Efficiency Class		A++/A+	A++/A+	A++/A+
	Air Flow Volume	m ³ /h	3100	4000	4200
Dimension (WxDxH)	Net	mm	834×328×655	985×395×808	985×395×808
	Packing	mm	945×435×725	1105×495×895	1105×495×895
Weight	Net/Gross	kg	46/49	74/78	75/79
	Liquid Side	mm(inch)	3×6.35(1/4)	4×6.35(1/4)	5×6.35(1/4)
Piping size	Gas Side	mm(inch)	3×9.52(3/8)	4×9.52(3/8)	5×9.52(3/8)
	Max.Pipe Length Between IDU to ODU	m	30	35	35
Max.Height Difference Between ODU to IDU	Cooling/Heating	°C	-15~52/-15~24	-15~52/-15~24	-15~52/-15~24
	Stuffing Quantity	20/40/40H	unit	96/198/198	44/96/144

Inverter Series- Indoor units

Indoor Units



TADIRAN

Specification-R32 Wall Mounted Alpha L Type



Model	Indoor unit	Alpha L inverter				
		7R	9R	12R	18R	
Capacity	Cooling/Heating	Btu/h kW	7165(3855~9220)/7510(3340~8530) 2.05(1.13~2.70)/2.15(0.98~2.50)	8701(3412~11260)/9042(3753~11260) 2.55(1.00~3.30)/2.65(1.10~3.30)	12283(4084~12669)/12624(3412~12669) 3.50(1.20~3.80)/3.50(1.00~3.80)	18033(6483~18766)/18425(4777~19107) 5.30(1.90~5.50)/5.40(1.40~5.60)
Electric Data	Power Supply	V~Hz,Ph	220-240,50,1	220-240,50,1	220-240,50,1	220-240,50,1
	Cooling/Heating Power Input	W	40(12~68)/40(12~68)	40(12~68)/40(12~68)	40(12~68)/40(12~68)	63(16~89)/63(16~88)
Performance	Air Flow Volume	m ³ /h	650/450/395	650/450/395	650/450/395	1000/660/688
	Sound Pressure Noise Level	dB(A)	40/38/34	41/38/34	42/40/36	48/42/35
	Sound Power Noise Level	dB(A)	51	54	53	58
Dimension (WxDxH)	Net	mm	800×300×198	800×300×198	800×300×198	970×315×235
	Packing	mm	870×370×282	870×370×282	870×370×282	1047×385×317
Weight	Net/Gross	kg	9/10.5	9/10.5	9/10.5	12.5/14.5
	Liquid Side	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)
Piping size	Gas Side	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)	12.7(1/2)
	Drainage	mm(inch)	16.5	16.5	16.5	16.5
Stuffing Quantity	20/40/40H	unit	320/680/765	320/680/765	320/680/765	224/476/544

Specification-R32 Wall Mounted Alpha F Type



Model	Indoor unit	Alpha F inverter			
		7R	9R	12R	
Capacity	Cooling/Heating	Btu/h kW	7165(3855~9220)/7510(3340~8530) 2.05(1.13~2.70)/2.15(0.98~2.50)	9000(4780~11260)/9215(4095~10240) 2.58(1.140~3.30)/2.70(1.20~3.00)	12285(5800~12625)/12625(5120~12625) 3.50(1.70~3.70)/3.50(1.50~3.70)
Electric Data	Power Supply	V~Hz,Ph	220-240,50,1	220-240,50,1	220-240,50,1
	Cooling/Heating Power Input	W	40(12~68)/40(12~68)	40(12~68)/40(12~68)	40(12~68)/40(12~68)
Performance	Air Flow Volume	m ³ /h	600/480/370	600/480/370	600/480/370
	Sound Pressure Noise Level	dB(A)	40/38/34	40/38/34	42/40/36
	Sound Power Noise Level	dB(A)	51	54	52
Dimension (WxDxH)	Net	mm	750×285×200	750×285×200	750×285×200
	Packing	mm	820×347×277	820×347×277	820×347×277
Weight	Net/Gross	kg	7.5/9	7.5/9	8/10
	Liquid Side	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)
Piping size	Gas Side	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)
	Drainage	mm(inch)	16.5	16.5	16.5
Stuffing Quantity	20/40/40H	unit	384/768/864	384/768/864	384/768/864

Model	Indoor unit	Alpha F inverter		
		18R	24R	
Capacity	Cooling/Heating	Btu/h kW	17747(8530~19790)/18085(7680~19790) 5.27(2.50~5.80)/5.37(2.25~5.80)	23986(9895~24908)/24054(7165~27296) 7.03(2.90~7.30)/7.05(2.10~8.00)
Electric Data	Power Supply	V~Hz,Ph	220-240,50,1	220-240,50,1
	Cooling/Heating Power Input	W	63(16~88)/63(16~88)	63(16~88)/63(16~88)
Performance	Air Flow Volume	m ³ /h	850/800/680	1150/950/750
	Sound Pressure Noise Level	dB(A)	45/42/35	49/42/35
	Sound Power Noise Level	dB(A)	57	60
Dimension (WxDxH)	Net	mm	900×310×225	1082×330×233
	Packing	mm	970×382×302	1155×397×312
Weight	Net/Gross	kg	12/14	15/16.5
	Liquid Side	mm(inch)	6.35(1/4)	6.35(1/4)
Piping size	Gas Side	mm(inch)	12.7(1/2)	15.88(5/8)
	Drainage	mm(inch)	16.5	16.5
Stuffing Quantity	20/40/40H	unit	252/518/592	203/427/488



Indoor Units

Specification-R32 Wall Mounted Alpha J Type



Model	Indoor unit	Alpha J inverter 7R			Alpha J inverter 9R			Alpha J inverter 12R			
		Btu/h	7165(3855-9220)/7510(3340-8530)		9000(4780-11260)/9215(4095-10240)		12285(5800-12625)/12625(5120-12625)		220-240.50.1		
Capacity	Cooling/Heating	kW	2.05(1.13-2.70)/2.15(0.98-2.50)		2.58(1.40-3.30)/2.70(1.20-3.00)		3.50(1.70-3.70)/3.50(1.50-3.70)		220-240.50.1		
Electric Data	Power Supply	V~Hz,Ph	220-240.50.1			220-240.50.1			220-240.50.1		
	Cooling/Heating Power Input	W	40(12-68)/40(12-68)			40(12-68)/40(12-68)			40(12-68)/40(12-68)		
	Air Flow Volume	m ³ /h	600			600			600		
Performance	Sound Pressure Noise Level	dB(A)	40/38/34			40/38/34			42/40/37		
	Sound Power Noise Level	dB(A)	51			54			52		
	Net	mm	792*292*201			792*292*201			792*292*201		
Dimension (WxDxH)	Packing	mm	888*370*290			888*370*290			888*370*290		
	Net/Gross	kg	8/10			8/10			8.5/10.5		
Piping size	Liquid Side	mm(inch)	6.35(1/4)			6.35(1/4)			6.35(1/4)		
	Gas Side	mm(inch)	9.52(3/8)			9.52(3/8)			9.52(3/8)		
	Drainage	mm(inch)	16.5			16.5			16.5		
Stuffing Quantity	20/40/40H	unit	304/640/720			304/640/720			304/640/720		

Model	Indoor unit	Alpha J inverter 18R			Alpha J inverter 24R			
		Btu/h	17747(8530-19790)/18085(7680-19790)		23986(9895-24908)/24054(7165-27296)		220-240.50.1	
Capacity	Cooling/Heating	kW	5.27(2.50-5.80)/5.37(2.25-5.80)		7.03(2.90-7.30)/7.05(2.10-8.00)		220-240.50.1	
Electric Data	Power Supply	V~Hz,Ph	220-240.50.1			220-240.50.1		
	Cooling/Heating Power Input	W	63(16-88)/63(16-88)			63(16-88)/63(16-88)		
	Air Flow Volume	m ³ /h	850			1150		
Performance	Sound Pressure Noise Level	dB(A)	45/42/37			49/43/37		
	Sound Power Noise Level	dB(A)	55			59		
	Net	mm	940*316*224			1132*330*232		
Dimension (WxDxH)	Packing	mm	1010*385*310			1205*400*317		
	Net/Gross	kg	12/14			14/17		
Piping size	Liquid Side	mm(inch)	6.35(1/4)			6.35(1/4)		
	Gas Side	mm(inch)	12.7(1/2)			15.88(5/8)		
	Drainage	mm(inch)	16.5			16.5		
Stuffing Quantity	20/40/40H	unit	238/490/560			154/336/384		



Specification-R32 Ceiling & Floor

Model	Indoor unit	Floor/Ceiling inverter 9R			Floor/Ceiling inverter 12R			Floor/Ceiling inverter 18R			
		Btu/h	9560(5120-12115)/10240(5460-13000)		12285(5800-12625)/13306(6930-15080)		18080(8530-19107)/19790(10340-24000)		220-240.50.1		
Capacity	Cooling/Heating	kW	2.80(1.50-3.55)/3.00(1.60-3.81)		3.60(1.70-3.70)/3.9(2.03-4.42)		5.3(2.50-5.6)/5.8(3.03-7.03)		220-240.50.1		
Electric Data	Power Supply	V~Hz,Ph	220-240.50.1			220-240.50.1			220-240.50.1		
	Cooling/Heating Power Input	W	70(20-125)/70(20-125)			70(20-125)/70(20-125)			80(20-125)/80(20-125)		
	Air Flow Volume	m ³ /h	840/700/580			840/700/580			900/720/600		
Performance	Sound Pressure Noise Level	dB(A)	40/34/31			40/34/31			42/35/33		
	Sound Power Noise Level	dB(A)	55			55			58		
	Net	mm	1000*690*235			1000*690*235			929*660*205		
Dimension (WxDxH)	Packing	mm	1080*770*325			1080*770*325			1010*720*290		
	Net/Gross	kg	27/32.5			27/32.5			28/33.5		
Piping size	Liquid Side	mm(inch)	6.35(1/4)			6.35(1/4)			6.35(1/4)		
	Gas Side	mm(inch)	12.7(1/2)			12.7(1/2)			12.7(1/2)		
	Drainage	mm(inch)	DN20(R3/4)			DN20(R3/4)			DN20(R3/4)		
Stuffing Quantity	20/40/40H	unit	112/224/256			112/224/256			112/224/256		

Specification-R32 Cassette



Model	Indoor unit	Cassette inverter 9R				Cassette inverter 12R				Cassette inverter 18R				Cassette inverter 24R				
		Btu/h	9560(5120-12115)/10240(5460-13000)			12285(5800-12625)/13306(6930-15080)			17000(8530-19107)/19107(10340-24000)			24000(7400-28000)/27300(8800-31700)			220-240.50.1			
Capacity	Cooling/Heating	kW	2.80(1.50-3.55)/3.00(1.60-3.81)			3.60(1.70-3.70)/3.9(2.03-4.42)			5.0(2.50-5.6)/5.6(3.03-7.03)			7.00(2.16-8.20)/8.00(1.98-9.30)			220-240.50.1			
Electric Data	Power Supply	V~Hz,Ph	220-240.50.1				220-240.50.1				220-240.50.1				220-240.50.1			
	Cooling/Heating Power Input	W	70(17.5-109)/70(17.5-109)				70(17.5-109)/70(17.5-109)				70(17.5-109)/70(17.5-109)				110(27.5-171)/110(27.5-171)			
	Air Flow Volume	m ³ /h	700/600/530				700/600/530				700/600/530				1400/1350/1150			
Performance	Sound Pressure Noise Level	dB(A)	45/41/35				45/41/35				45/41/35				47/45/42			
	Sound Power Noise Level	dB(A)	56				56				56				57			
	Net(Body)	mm	570*570*260				570*570*260				570*570*260				840*840*246			
Dimension (WxDxH)	Packing(Body)	mm	655*655*295				655*655*295				655*655*295				910*910*310			
	Net(Panel)	mm	650*650*55				650*650*55				650*650*55				950*950*55			
	Packing(Panel)	mm	710*710*80				710*710*80				710*710*80				1000*1000*100			
Weight	Net(Gross/Body)	kg	18/21				18/21				18/21				26/30			
	Net(Gross/Panel)	kg	22/27				22/27				22/27				33/38			
	Liquid Side	mm(inch)	6.35(1/4)				6.35(1/4)				6.35(1/4)				6.35(1/4)			
Piping size	Gas Side	mm(inch)	12.7(1/2)				12.7(1/2)				12.7(1/2)				15.88(3/8)			
	Drainage	mm(inch)	20				20				20				20			
	Stuffing Quantity	20/40/40H	unit	168/361/414				168/361/414				168/361/414				82/180/206		

Specification-R32 Slim Duct



Model	Indoor unit	Slim ducted inverter 7R			Slim ducted inverter 9R			Slim ducted inverter 12R			Slim ducted inverter 18R			Slim ducted inverter 24R		
		Btu/h	7500(3855-9220)/8530(4575-10820)		8872(5120-12115)/9886(6900-12450)		12280(6305-13135)/13620(6400-13375)		17400(8530-19107)/19790(6930-21835)		24022(1046-25436)/25920(12513-32889)		220-240.50.1			
Capacity	Cooling/Heating	kW	2.20(1.13-2.70)/2.50(1.34-3.17)		2.60(1.50-3.55)/2.91(1.70-3.65)		3.60(1.71-3.85)/4.01(1.90-3.92)		5.10(2.50-5.80)/5.92(2.84-6.40)		7.10(3.47-7.50)/7.90(3.67-7.88)		220-240.50.1			
Electric Data	Power Supply	V~Hz,Ph	220-240.50.1			220-240.50.1			220-240.50.1			220-240.50.1				
	Cooling/Heating Power Input	W	55/55			55/55			55/55			75/75				
	Air Flow Volume	m ³ /h	600/450/380			600/450/380			680/560/450			860/660/600				
Performance	Sound Pressure Noise Level	dB(A)	37/33/30			37/33/30			38/34/31			39/35/33				
	Sound Power Noise Level	dB(A)	53			53			53			55				
	ESP	Pa	10			10			10			10				
Dimension (WxDxH)	Net	mm	700*470*200			700*470*200			700*470*200			1000*470*200				
	Packing	mm	1005*580*275			1005*580*275			1005*580*275			1305*580*275				
	Net/Gross	kg	18.5/22			18.5/22			18.5/22			24/28				
Piping size	Liquid Side	mm(inch)	6.35(1/4)			6.35(1/4)			6.35(1/4)			6.35(1/4)				
	Gas Side	mm(inch)	9.52(1/2)			9.52(1/2)			9.52(1/2)			12.7(1/2)				
	Drainage	mm(inch)	16.5			16.5			16.5			16.5				
Stuffing Quantity	20/40/40H	unit	176/368/414			176/368/414			176/368/414			136/288/324				