



# 2<sup>nd</sup> Generation VRF DC INDOOR UNITS

## Wide Application Range

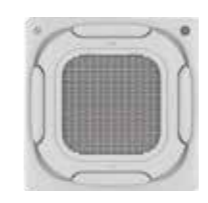
### Wide Range of Indoor Units

With 11 types and more than 100 models, Carrier VRF indoor units meet varied customer requirements in a wide range of locations including shopping malls, hospitals, office buildings, hotels and airports.



### Multiple Appearance Options

For Four-way Cassette and Compact Four-way Cassette Units, interchangeable 360° airflow and four-way airflow panels are available.



360° airflow



Four-way airflow

For Floor Standing Units, the F3B (concealed) unit is designed to be concealed in walls while the F4 (front air intake) and F5 (underside air intake) offer a choice of air intake options.



F3B (concealed)



F4 (front air intake)



F5 (underside air intake)

# High Static Pressure Duct

- External static pressure up to 400Pa facilitates extensive duct and grille network
- 20-step static pressure control on all models (requires latest generation wired controllers)
- A double-skin drainage pan provides double protection for ceilings (models 71 to 160).
- Water pump box is available as a customization option



Optional controller



Model	42VD024H115011016		42VD028H115011016		42VD030H115011016		
Power supply	1 phase, 220-240V, 50/60Hz						
Cooling <sup>1</sup>	Capacity	kW	7.1	8.0	9.0		
		kBtu/h	24.2	27.3	30.7		
Heating <sup>2</sup>	Capacity	kW	8.0	9.0	10.0		
		kBtu/h	27.3	30.7	34.1		
Power input	W	180	180	220			
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	1360/1327/1293/1260/1227/1193/1160		1360/1327/1293/1260/1227/1193/1160		1420/1373/1327/1280/1233/1187/1140	
External static pressure	Pa	100 (30~200)					
Sound pressure level <sup>4</sup>	dB(A)	46/46/45/45/44/43/42		46/46/45/45/44/43/42		50/49/48/48/47/46/45	
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	952x420x690				
	Packed dimensions (WxHxD)	mm	1090x440x768				
	Net/Gross weight	kg	41/47			51/57	
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9				
	Drain pipe	mm	OD Φ25				

Model	42VD036H115011016		42VD048H115011016		42VD054H115011016		42VD070H115011016		
Power supply	1 phase, 220-240V, 50/60Hz								
Cooling <sup>1</sup>	Capacity	kW	11.2	14.0	16.0	20.0			
		kBtu/h	38.2	47.8	54.6	68.2			
Heating <sup>2</sup>	Capacity	kW	12.5	16.0	17.0	22.5			
		kBtu/h	42.7	54.6	58.0	76.8			
Power input	W	380	420	700	990				
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	1870/1783/1697/1610/1523/1437/1350		2240/2133/2027/1920/1813/1707/1600		2660/2530/2400/2270/2140/2010/1880		4330/4230/4130/4030/3930/3830/3730	
External static pressure	Pa	100 (30~200)							
Sound pressure level <sup>4</sup>	dB(A)	50/50/49/48/47/46/45		53/52/51/51/50/49/48		54/54/53/52/51/50/50		57/56/55/54/53/52/50	
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	952x420x690		1300x420x690		1440x505x925		
	Packed dimensions (WxHxD)	mm	1090x440x768		1436x450x768		1509x550x990		
	Net/Gross weight	kg	51/57		63/70		130/142		
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ19.1			Φ12.7/Φ22.2			
	Drain pipe	mm	OD Φ25			OD Φ32			

Model	42VD085H115011016		42VD096H115011016		42VD140H115011016		42VD160H115011016		42VD190H115011016		
Power supply	1 phase, 220-240V, 50/60Hz										
Cooling <sup>1</sup>	Capacity	kW	25.0	28.0	40.0	45.0	56				
		kBtu/h	85.3	95.5	136.5	153.6	191.1				
Heating <sup>2</sup>	Capacity	kW	26.0	31.5	45.0	56.0	63				
		kBtu/h	88.7	107.5	153.6	191.1	215				
Power input	W	1200	1200	1800	1800	2272					
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	4330/4230/4130/4030/3930/3830/3730				6500/6150/5800/5450/5100/4750/4400		7400/7000/6600/6200/5800/5400/5000			
External static pressure	Pa	170 (20~250)									
Sound pressure level <sup>4</sup>	dB(A)	57/56/55/54/53/52/50				60/59/58/57/55/54/52		59/58/57/56/55/53/51			
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	1440x505x925		2005x929x670		2005x929x670				
	Packed dimensions (WxHxD)	mm	1509x550x990		2095x964x800		2095x964x800				
	Net/Gross weight	kg	130/142		210/235		218/248				
Pipe connections	Liquid/Gas pipe	mm	Φ12.7/Φ22.2			Φ15.9/Φ28.6		Φ15.9/Φ28.6			
	Drain pipe	mm	OD Φ32			OD Φ32		OD Φ32			

Notes:  
 1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.  
 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.  
 3. Each model's 7 airflow rate options are listed in order, from highest to lowest.  
 4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.  
 5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments. All specifications are measured at standard external static pressure.

# Fresh Air Processing Unit

- 100% fresh air processing unit, both fresh air filtration and heating/cooling can be achieved in a single system
- External static pressure up to 400Pa facilitates extensive duct and grille network
- 20-step static pressure control on all models (requires latest generation wired controllers)
- Water pump box is available as a customization option



Optional controller



Model	42VD042H115211016		42VD048H115211016	
Power supply	1 phase, 220-240V, 50/60Hz			
Cooling <sup>1</sup>	Capacity	kW	12.5	14.0
		kBtu/h	42.6	47.8
Heating <sup>2</sup>	Capacity	kW	10.5	12.0
		kBtu/h	36.0	41.0
Power input	W	370	370	
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	2000/1917/1833/1750/1667/1583/1500		
External static pressure	Pa	180 (30~200)		
Sound pressure level <sup>4</sup>	dB(A)	48/47/46/45/44/43/42		
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	1300x420x690	
	Packed dimensions (WxHxD)	mm	1436x450x768	
	Net/Gross weight	kg	63/70	
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ19.1	
	Drain pipe	mm	OD Φ25	

Model	42VD070H115211016		42VD085H115211016		42VD096H115211016		42VD160H115211016		42VD190H115211016		
Power supply	1 phase, 220-240V, 50/60Hz										
Cooling <sup>1</sup>	Capacity	kW	20.0	25.0	28.0	45.0	56				
		kBtu/h	68.2	85.3	95.5	153.6	191				
Heating <sup>2</sup>	Capacity	kW	18.0	20.0	22.0	28.0	39				
		kBtu/h	61.4	68.2	75.0	95.6	133				
Power input	W	615	670	670	1080	2272					
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	3000/2833/2667/2500/2333/2167/2000					4200/3967/3733/3500/3267/3033/2800		7400/7000/6600/6200/5800/5400/5000		
External static pressure	Pa	200 (30~250)					300 (100~400)				
Sound pressure level <sup>4</sup>	dB(A)	50/49/48/47/46/44/43					58/56/55/53/51/49/48		59/58/57/56/54/53/51		
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	1450x505x925			2005x929x670					
	Packed dimensions (WxHxD)	mm	1509x550x990			2095x964x800					
	Net/Gross weight	kg	130/142			195/215		218/248			
Pipe connections	Liquid/Gas pipe	mm	Φ12.7/Φ22.2			Φ15.9/Φ28.6					
	Drain pipe	mm	OD Φ32			OD Φ32					

Notes:  
 1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.  
 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.  
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 5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments. All specifications are measured at standard external static pressure.