

# VIVID II Specification

Model			APA5-I252X/A2HZ1L	APA5-I280X/A2HZ1L	APA5-I335X/A2HZ1L	APA5-I400X/A2HZ1L
Power source		V-Ph-Hz	380~415V 3N 50Hz/60Hz			
Cooling	Capacity	kW	25.2	28.0	33.5	40.0
	EER	Btu/W.h	14.85	13.60	13.20	12.70
Heating	Capacity	kW	27.0	31.5	37.5	45.0
	COP	kW/kW	4.66	4.38	4.25	4.10
Max. input consumption		W	11360	11360	12488	16180
Max. current		A	19.8	19.8	20.6	25.9
DC inverter compressor	Model		E655DHD-65D2YG	E655DHD-65D2YG	E705DHD-72D2YG	E405DHD-42D2YG
	Quantity		1	1	1	2
	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Capacity	kW	21.06	21.06	23.25	13.8×2
		kBtu/h	71.9	71.9	79.3	47.1×2
	Crankcase heater	W	27.6×2	27.6×2	27.6×2	27.6×4
	Refrigerant oil type		FVC68D	FVC68D	FVC68D	FVC68D
Refrigerant oil charge	gal. (ml)	0.132(500)	0.132(500)	0.132(500)	0.132(500)×2	
Outdoor Fan Motor	Model		WZDK560-38G(B)	WZDK560-38G(B)	WZDK560-38G(B)	WZDK560-38G(B)
	Type		DC motor	DC motor	DC motor	DC motor
	Quantity		1	1	1	2
	Input	W	580	580	580	360+290
	Output	W	465	465	465	290+230
Outdoor fan	Type		Axial	Axial	Axial	Axial
	Fan Quantity		1	1	1	2
	External Static Pressure	in. W.G. (Pa)	0~0.08(0~20) (default)			
in. W.G.		0.08~0.16(20~40) (customized)				
Outdoor coil	Number of rows		2	2	3	2
	Tube pitch(a) ×row pitch(b)	in. (mm)	7/8×3/4(22×19)	7/8×3/4(22×19)	7/8×3/4(22×19)	7/8×3/4(22×19)
		in. (mm)	1/16(1.6)	1/16(1.6)	1/16(1.6)	1/16(1.6)
	Fin type		Hydrophilic aluminum			
	Tube outside diameter	in. (mm)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)
	Tube type		Inner-grooved	Inner-grooved	Inner-grooved	Inner-grooved
	Number of circuits		22	22	22	22
Outdoor air flow		m <sup>3</sup> /h	12,000	12,000	12,000	14,000
		CFM	7,060	7,060	7,060	8,240
Sound pressure level		dB(A)	43~58	43~59	43~60	43~62
Max Connectable Indoor Units			13	16	19	23
Outdoor unit	Dimension (W×H×D)	inch	39×64-3/8×31-1/8			52-3/4×64-3/8×31-1/8
		mm	990×1635×790			1340×1635×790
	Packing (W×H×D)	inch	41-1/2×71-1/16×33-5/8			55-3/8×71-1/16×33-5/8
		mm	1055×1805×855			1405×1805×855
	Net weight	lbs. (kg)	483(219)	483(219)	523(237)	655(297)
Gross weight	lbs. (kg)	516(234)	516(234)	556(252)	695(315)	
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charged	lbs. (kg)	20(9)	20(9)	24(11)	29(13)
Throttle type			EXV	EXV	EXV	EXV
Design pressure(High/low)		MPa	4.4/2.6	4.4/2.6	4.4/2.6	4.4/2.6
		psi	640/380	640/380	640/380	640/380
Pipe connections	Liquid pipe	in. (mm)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)
	Gas pipe	in. (mm)	Φ7/8(Φ22.2)	Φ7/8(Φ22.2)	Φ1(Φ25.4)	Φ1(Φ25.4)
	Oil balance pipe	in. (mm)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)
Operating temperature range	Cooling	°F(°C)	23~118.4(-5~48)			
	Heating	°F(°C)	-4~75.2(-20~24)			

# VIVID II Specification

Model			APA5-I450X/A2HZ1L	APA5-I500X/A2HZ1L	APA5-I560X/A2HZ1L	APA5-I615X/A2HZ1L	
Power source		V-Ph-Hz	380~415V 3N 50Hz/60Hz				
Cooling	Capacity	kW	45.0	50.0	56.0	61.5	
	EER	Btu/W.h	11.9	11.8	11.5	11.2	
Heating	Capacity	kW	50.0	56.0	63.0	69.0	
	COP	kW/kW	4.01	3.96	3.94	3.86	
Max. input consumption		W	16180	18330	24116	24116	
Max. current		A	25.9	29.0	42	42	
DC Inverter Compressor	Model		E405DHD-42D2YG	E405DHD-36D2YG E705DHD-72D2YG	E705DHD-72D2YG	E705DHD-72D2YG	
	Quantity		2	1+1	2	2	
	Type		DC inverter	DC inverter	DC inverter	DC inverter	
	Capacity	kW	13.8×2	11.8+23.25	23.25×2	23.25×2	
		kBtu/h	47.1×2	40.3+79.3	79.3×2	79.3×2	
	Crankcase heater	W	27.6×4	27.6×4	27.6×4	27.6×4	
	Refrigerant oil type		FVC68D	FVC68D	FVC68D	FVC68D	
Refrigerant oil Charge	gal. (ml)	0.132(500)×2	0.132(500)×2	0.132(500)×2	0.132(500)×2		
Outdoor Fan Motor	Model		WZDK560-38G(B)	WZDK560-38G(B)	WZDK560-38G(B)	WZDK560-38G(B)	
	Type		DC motor	DC motor	DC motor	DC motor	
	Quantity		2	2	2	2	
	Input	W	360+290	520+440	550+430	550+430	
	Output	W	290+230	420+350	440+350	440+350	
Outdoor Fan	Type		Axial	Axial	Axial	Axial	
	Fan Quantity		2	2	2	2	
	External Static Pressure	in. W.G. (Pa)	0~0.08(0~20) (default)				
		in. W.G. (Pa)	0.08~0.16(20~40) (customized)				
Outdoor coil	Number of rows		2	2	3	3	
	Tube pitch(a) ×row pitch(b)		in.(mm)	7/8×3/4(22×19)	7/8×3/4(22×19)	7/8×3/4(22×19)	7/8×3/4(22×19)
	Fin spacing		in.(mm)	1/16(1.6)	1/16(1.6)	1/16(1.6)	1/16(1.6)
	Fin type		Hydrophilic aluminum				
	Tube outside diameter		in.(mm)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)	Φ5/16(Φ7.94)
	Tube type		Inner-grooved				
	Number of circuits		22				
Outdoor air flow		m³/h	14,000	16,000	16,000	16,000	
		CFM	8,240	9,410	9,410	9,410	
Sound pressure level		dB(A)	43~62	43~63	43~63	43~63	
Max Connectable Indoor Units			26	29	33	36	
Outdoor unit	Dimension (W×H×D)		inch	52-3/4×64-3/8×31-1/8			
			mm	1340×1635×790			
	Packing (W×H×D)		inch	55-3/8×71-1/16×33-5/8			
			mm	1405×1805×855			
	Net weight	lbs.(kg)	655(297)	673(305)	750(340)	750(340)	
Gross weight	lbs.(kg)	695(315)	712(323)	790(358)	790(358)		
Refrigerant	Type		R410A	R410A	R410A	R410A	
	Factory charged	lbs.(kg)	29(13)	29(13)	35(16)	35(16)	
Throttle type			EXV	EXV	EXV	EXV	
Design pressure(High/low)		MPa	4.4/2.6	4.4/2.6	4.4/2.6	4.4/2.6	
		psi	640/380	640/380	640/380	640/380	
Pipe connections	Liquid pipe	in.(mm)	Φ1/2(Φ12.7)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)	
	Gas pipe	in.(mm)	Φ1-1/8(Φ28.6)	Φ1-1/8(Φ28.6)	Φ1-1/8(Φ28.6)	Φ1-1/8(Φ28.6)	
	Oil balance pipe	in.(mm)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)	
Operating temperature range	Cooling	°F(°C)	23~118.4(-5~48)				
	Heating	°F(°C)	-4~75.2(-20~24)				