



Tropical Digital Scroll Divar 50Hz Units Specifications



APEAU-E252(8)X/SZ1-C

APEAU-E280(10)X/SZ1-C

APEAU-E335(12)X/SZ1-C

Model			APEAU-E252(8)X/SZ1-C	APEAU-E280(10)X/SZ1-C	APEAU-E335(12)X/SZ1-C	
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	
Capacity	Cooling*	RT	7.2	8.0	9.5	
		kW	25.2	28.0	33.5	
		Btu/h	86,000	95,500	114,300	
		kcal/h	21,672	24,080	28,810	
	Cooling**	RT	7.0	7.4	8.7	
		kW	24.5	25.8	30.8	
		Btu/h	83,940	88,030	105,090	
		kcal/h	21,070	22,188	26,488	
		Heating	RT	7.7	8.9	10.7
			kW	27.0	31.5	37.5
Btu/h	92,100		107,500	128,000		
kcal/h	23,220		27,090	32,250		
Power Input	Cooling*	kW	5.8	6.8	8.2	
	Cooling**	kW	7.5	8.7	10.4	
	Heating	kW	5.6	7.0	8.1	
EER*			4.35	4.10	4.10	
EER**			3.27	2.97	2.96	
COP			4.80	4.50	4.65	
Connectable Indoor Unit	Total Capacity	%	50-130	50-130	50-130	
	Max. Quantity		13	16	20	
Sound Pressure Level		dB(A)	57	57	58	
Pipe Connections	Liquid Pipe	mm(inch)	Φ9.5(3/8)	Φ9.5(3/8)	Φ12.7(1/2)	
	Gas Pipe	mm(inch)	Φ22.2(7/8)	Φ22.2(7/8)	Φ25.4(1)	
	Gas Balance Pipe	mm(inch)	-	-	-	
Fan & Motor	Fan Type		Axial propeller	Axial propeller	Axial propeller	
	Motor Quantity		1	1	1	
	Air Flow Rate	m ³ /h	11,700	11,700	11,700	
		CFM	6,887	6,887	6,887	
	Motor Output	W	425	425	490	
	ESP	Pa	0~20 (default)	0~20 (default)	0~20 (default)	
		20~40 (customized)	20~40 (customized)	20~40 (customized)		
Digital Scroll Compressor	Quantity		1	1	1	
	Capacity	W	16,848	16,848	16,848	
	Oil Type		POE	POE	POE	
	Oil Charge	ml	3,667	3,667	3,667	
Fixed Scroll Compressor	Quantity		1	1	1	
	Capacity	W	13,921	13,921	16,200	
	Oil Type		POE	POE	POE	
	Oil Charge	ml	3,194	3,194	3,252	
Refrigerant	Type		R410A	R410A	R410A	
	Factory Charging	kg(lbs)	9(19.8)	9(19.8)	10(22)	
Design Pressure (Hi/L0)		MPa	4.4/2.6	4.4/2.6	4.4/2.6	
Net Dimension (W×H×D)	mm		960×1,615×765	960×1,615×765	960×1,615×765	
	inch		37.8×63.6×30.1	37.8×63.6×30.1	37.8×63.6×30.1	
Packing (W×H×D)	mm		1,025×1,790×830	1,025×1,790×830	1,025×1,790×830	
	inch		40.4×70.5×32.7	40.4×70.5×32.7	40.4×70.5×32.7	
Net Weight	kg(lbs)		240(529)	240(529)	242(533)	
Gross Weight	kg(lbs)		255(562)	255(562)	257(566)	
Operating Temp. Range	Cooling	°C(°F)	-15~54(5~129)	-15~54(5~129)	-15~54(5~129)	
	Heating	°C(°F)	-15~24 (5~75.2)	-15~24 (5~75.2)	-15~24 (5~75.2)	

Notes:

Capacities are based on the following conditions:

Cooling*: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.

Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46 °C (114.8°F) DB/24°C (75.2°F) WB.

Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.

Piping length: Interconnecting piping length 7.5m, level difference of zero.

Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.

Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m³/h×0.588



Tropical Digital Scroll Divar 50Hz Units Specifications



APEAU-E400(14)X/SZ1-C
APEAU-E450(16)X/SZ1-C

Model			APEAU-E400(14)X/SZ1-C	APEAU-E450(16)X/SZ1-C	
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	
Capacity	Cooling*	RT	11.4	12.8	
		kW	40.0	45.0	
		Btu/h	136,500	153,500	
		kcal/h	34,400	38,700	
	Cooling**	RT	10.5	11.7	
		kW	36.7	41.2	
		Btu/h	125,220	140,580	
		kcal/h	31,562	35,466	
		Heating	RT	12.8	14.2
			kW	45	50
Btu/h	153,500		170,600		
kcal/h	38,700		43,000		
Power Input	Cooling*	kW	9.6	11.3	
	Cooling**	kW	12.1	14.4	
	Heating	kW	9.6	11.1	
EER*			4.15	4.00	
EER**			3.03	2.86	
COP			4.70	4.50	
Connectable Indoor Unit	Total Capacity	%	50-130	50-130	
	Max. Quantity		23	26	
Sound Pressure Level		dB(A)	60	61	
Pipe Connections	Liquid Pipe	mm(inch)	Φ12.7(1/2)	Φ12.7(1/2)	
	Gas Pipe	mm(inch)	Φ25.4(1)	Φ28.6(1 1/8)	
	Gas Balance Pipe	mm(inch)	-	-	
Fan & Motor	Fan Type		Axial propeller	Axial propeller	
	Motor Quantity		2	2	
	Air Flow Rate	m ³ /h	15,600	15,600	
		CFM	9,183	9,183	
	Motor Output	W	420+380	420+380	
ESP	Pa	0~20 (default)	0~20 (default)		
		20~40 (customized)	20~40 (customized)		
Digital Scroll Compressor	Quantity		1	1	
	Capacity		W	16,848	
	Oil Type		POE	POE	
	Oil Charge		ml	3,667	
Fixed Scroll Compressor	Quantity		2	2	
	Capacity		W	16,200×2	
	Oil Type		POE	POE	
	Oil Charge		ml	3,252×2	
Refrigerant	Type		R410A	R410A	
	Factory		kg(lbs)	14(30.9)	
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6	
Net Dimension (W×H×D)	mm		1,250×1,615×765	1,250×1,615×765	
	inch		49.2×63.6×30.1	49.2×63.6×30.1	
Packing (W×H×D)	mm		1,305×1,790×820	1,305×1,790×820	
	inch		51.4×70.5×32.3	51.4×70.5×32.3	
Net Weight	kg(lbs)		330(727)	330(727)	
Gross Weight	kg(lbs)		345(761)	345(761)	
Operating Temp. Range	Cooling	°C(°F)			
	Heating	°C(°F)			

Notes:

Capacities are based on the following conditions:

Cooling*: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 35°C (95°F) DB/24°C (75.2°F) WB.

Cooling**: Indoor temperature 27°C (80.6°F) DB/19°C (66.2°F) WB; Outdoor temperature 46°C (114.8°F) DB/24°C (75.2°F) WB.

Heating: Indoor temperature 20°C (68°F) DB/15°C (59°F) WB; Outdoor temperature 7°C (44.6°F) DB/6°C (42.8°F) WB.

Piping length: Interconnecting piping length 7.5m, level difference of zero.

Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.

Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m³/h×0.588



Tropical Digital Scroll Divar 60Hz Units Specifications



APEAU-E252(8)X/DZ1-C

APEAU-E280(10)X/DZ1-C

APEAU-E335(12)X/DZ1-C

Model			APEAU-E252(8)X/DZ1-C	APEAU-E280(10)X/DZ1-C	APEAU-E335(12)X/DZ1-C	
Power Supply		V/Ph/Hz	380-415/3/60	380-415/3/60	380-415/3/60	
Capacity	Cooling*	RT	7.2	8.0	9.5	
		kW	25.2	28	33.5	
		Btu/h	86,000	95,500	114,300	
		kcal/h	21,672	24,080	28,810	
	Cooling**	RT	7	7.4	8.7	
		kW	24.5	25.8	30.8	
		Btu/h	83,940	88,030	105,090	
		kcal/h	21070	22188	26488	
	Heating	RT	7.7	8.9	10.7	
		kW	27	31.5	37.5	
		Btu/h	92,100	107,500	128,000	
		kcal/h	23,220	27,090	32,250	
Power Input	Cooling*	kW	5.79	6.83	8.17	
	Cooling**	kW	7.50	8.70	10.40	
	Heating	kW	5.63	7	8.06	
EER*			4.35	4.1	4.1	
EER**			3.27	2.97	2.96	
COP			4.8	4.5	4.65	
Connectable Indoor Unit	Total Capacity	%	50-130	50-130	50-130	
	Max. Quantity		13	16	20	
Sound Pressure Level		dB(A)	57	57	58	
Pipe Connections	Liquid Pipes	mm(inch)	Φ9.5(3/8)	Φ9.5(3/8)	Φ12.7(1/2)	
	Gas Pipes	mm(inch)	Φ22.2(7/8)	Φ22.2(7/8)	Φ25.4(1)	
	Gas Balance Pipe	mm(inch)	-	-	-	
Fan & Motor	Fan Type		Axial propeller	Axial propeller	Axial propeller	
	Motor Quantity		1	1	1	
	Air Flow Rate	m³/h	11,700	11700	11,700	
		CFM	6,887	6,887	6,887	
	Motor output		W	425	425	490
	ESP	Pa	0~20 (default)	0~20 (default)	0~20 (default)	
20~40 (customized)			20~40 (customized)	20~40 (customized)		
Digital Scroll Compressor	Quantity		1	1	1	
	Capacity	W	18,100	18,100	18,100	
	Oil Type		POE	POE	POE	
	Oil Charge	ml	3,252	3,252	3,252	
Fixed Scroll Compressor	Quantity		1	1	1	
	Capacity	W	17,000	17,000	17,000	
	Oil Type		POE	POE	POE	
	Oil Charge	ml	3,252	3,252	3,252	
Refrigerant	Type		R410A	R410A	R410A	
	Factory Charge	kg(lbs)	9(19.8)	9(19.8)	10(22)	
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6	4.4/2.6	
Net Dimension (W×H×D)	mm		960×1615×765	960×1615×765	960×1615×765	
	inch		37.8×63.6×30.1	37.8×63.6×30.1	37.8×63.6×30.1	
Packing (W×H×D)	mm		1025×1790×830	1025×1790×830	1025×1790×830	
	inch		40.4×70.5×32.7	40.4×70.5×32.7	40.4×70.5×32.7	
Net Weight		kg(lbs)	240(529)	240(529)	242(533)	
Gross Weight		kg(lbs)	255(562)	255(562)	257(566)	
Operating Temp. Range	Cooling	°C(°F)	-15~54 (5~129)	-15~54 (5~129)	-15~54 (5~129)	
	Heating	°C(°F)	-15~24 (5~75.2)	-15~24 (5~75.2)	-15~24 (5~75.2)	

Notes:

Capacities are based on the following conditions:

Cooling*: Indoor temperature 27oC (80.6oF) DB/19oC (66.2oF) WB; Outdoor temperature 35oC (95oF) DB/24oC (75.2oF) WB.

Cooling**: Indoor temperature 27oC (80.6oF) DB/19oC (66.2oF) WB; Outdoor temperature 46oC (114.8oF) DB/24oC (75.2oF) WB.

Heating: Indoor temperature 20oC (68oF) DB/15oC (59oF) WB; Outdoor temperature 7oC (44.6oF) DB/6oC (42.8oF) WB.

Piping length: Interconnecting piping length 7.5m, level difference of zero.

Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.

Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588



Tropical Digital Scroll Divar 60Hz Units Specifications

APEAU-E400(14)X/DZ1-C

APEAU-E450(16)X/DZ1-C



Model			APEAU-E400(14)X/DZ1-C	APEAU-E450(16)X/DZ1-C
Power Supply		V/Ph/Hz	380-415/3/60	380-415/3/60
Capacity	Cooling*	RT	11.4	12.8
		kW	40	45
		Btu/h	136,500	153,500
		kcal/h	34,400	38,700
	Cooling**	RT	10.5	11.7
		kW	36.7	41.24
		Btu/h	125,220	140,580
		kcal/h	31562	35466.4
	Heating	RT	12.8	14.2
		kW	45	50
		Btu/h	153,500	170,600
		kcal/h	38,700	43,000
Power Input	Cooling*	kW	9.64	11.25
	Cooling**	kW	12.10	14.40
	Heating	kW	9.57	11.11
EER*			4.15	4
EER**			3.03	2.86
COP			4.7	4.5
Connectable Indoor Unit	Total Capacity	%	50-130	50-130
	Max. Quantity		23	26
Sound Pressure Level		dB(A)	60	61
Pipe Connections	Liquid Pipes	mm(inch)	Φ12.7(1/2)	Φ12.7(1/2)
	Gas Pipes	mm(inch)	Φ25.4(1)	Φ28.6(1 1/8)
	Gas Balance Pipe	mm(inch)	-	-
Fan & Motor	Fan Type		Axial propeller	Axial propeller
	Motor Quantity		1+1	1+1
	Air Flow Rate	m³/h	15,600	15,600
		CFM	9,183	9,183
	Motor output		W	420+360
	ESP	Pa	0~20 (default)	0~20 (default)
20~40 (customized)			20~40 (customized)	
Digital Scroll Compressor	Quantity		1	1
	Capacity	W	18,100	18,100
	Oil Type		POE	POE
	Oil Charge	ml	3,252	3,252
Fixed Scroll Compressor	Quantity		2	2
	Capacity	W	17,000×2	17,000×2
	Oil Type		POE	POE
	Oil Charge	ml	3,252×2	3,252×2
Refrigerant	Type		R410A	R410A
	Factory Charge	kg(lbs)	14(30.9)	14(30.9)
Design Pressure (Hi/Lo)		MPa	4.4/2.6	4.4/2.6
Net Dimension (W×H×D)	mm		1250×1615×765	1250×1615×765
	inch		49.2×63.6×30.1	49.2×63.6×30.1
Packing (W×H×D)	mm		1305×1790×820	1305×1790×820
	inch		51.4×70.5×32.3	51.4×70.5×32.3
Net Weight	kg(lbs)		330(727)	330(727)
Gross Weight	kg(lbs)		345(761)	345(761)
Operating Temp. Range	Cooling	°C(°F)	-15~54 (5~129)	-15~54 (5~129)
	Heating	°C(°F)	-15~24 (5~75.2)	-15~24 (5~75.2)

Notes:

Capacities are based on the following conditions:

Cooling*: Indoor temperature 27oC (80.6oF) DB/19oC (66.2oF) WB; Outdoor temperature 35oC (95oF) DB/24oC (75.2oF) WB.

Cooling**: Indoor temperature 27oC (80.6oF) DB/19oC (66.2oF) WB; Outdoor temperature 46oC (114.8oF) DB/24oC (75.2oF) WB.

Heating: Indoor temperature 20oC (68oF) DB/15oC (59oF) WB; Outdoor temperature 7oC (44.6oF) DB/6oC (42.8oF) WB.

Piping length: Interconnecting piping length 7.5m, level difference of zero.

Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.

Conversion Formula: RT=kW×0.284; kcal/h= kW×860; Btu/h= kW×3412; CFM=m3/h×0.588