

OMEGA Ducted Fan Coil Fixed Speed Split

SUBMITTAL DATA

208-230V/1/60Hz

Job: _____
 Location: _____
 Schedule No.: _____
 System Designation: _____

Engineer: _____
 Architect: _____
 Date: _____
 For: Reference Approval Review Construction

FEATURES

Outdoor

- Copper Tubes/ AL Fins Condenser
- Compressor Overload Protection
- High / Low Pressure Protection
- Super Quiet Operation
- Over Current Protection
- Discharge High Temperature Protection

Indoor

- Super Quiet Operation
- Ultra-Thin Body Design
- Adjustable Fan Speed
- Easy and Convenient Filter Placement
- Adjustable Air Return Placement
- Wired Controller



1. Specifications

SEMP - Ducted Fan Coil Indoor Unit

Model (Duct Indoor Unit)			SEMP224S2A-GCC070	SEMP236S2A-GCC105	SEMP248S2A-GCC140	SEMP260S2A-GCC160	
Power supply		V/Ph/Hz	220/1/60	220/1/60	220/1/60	220/1/60	
Cooling	Capacity	Btu/h	24000	36000	48000	60000	
	Capacity	W	7034	10551	14068	17585	
	Input	W	3430	3620	6519	7250	
	EER	Btu/h.W	7.00	9.94	7.36	8.28	
	EER	W/W	2.05	2.91	2.16	2.43	
MCA		A	2.00	2.30	2.00	2.00	
MOP		A	3.00	3.00	3.00	3.00	
MAX. Input consumption		W	210	260	370	340	
Indoor external static pressure		pa	30	30	30	30	
Starting current		A	42	50	80	98	
Operation Control		\	wired	wired	wired	wired	
Indoor coil	Number of rows		3	3	3	3	
	Tube pitch(a)xrow pitch(b)		mm	22×19.05	22×19.05	22×19.05	22×19.05
	Fin spacing		mm	1.7	1.7	1.7	1.7
	Fin type			Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic
	Tube outside dia. and type		mm	Φ7.94 inner grooved	Φ7.94 inner grooved	Φ7.94 inner grooved	Φ7.94 inner grooved
	Number of circuits			6	6	6	6
Indoor air flow(High speed)		m ³ /h	1150	1300	2000	2000	
Static Pressure		Pa	30	30	30	30	
Indoor noise level		dB(A)	40~52	45~50	51~56	51~56	
Indoor unit	Dimension(W*H*D)		Body(mm)	1190×260×643	1190×260×643	1425×260×643	1425×260×643
	Packing(W*H*D)		Body(mm)	1255×325×720	1255×325×720	1490×325×720	1490×325×720
	Net/Gross weight		Body(Kg)	32/36	32/36	46/50	46/50
Indoor fan motor	Model			YSK110-90F-4P2H105-1	YSK120-150F-4P2H105	YDK110-75F-4P2H105L-1+YSK120-150F-4P2H105-1	YDK110-75F-4P2H105L-1+YSK120-150F-4P2H105-1
	Input		W	200	330	165+330	165+330
	Output		W	90	150	75+150	75+150
	Capacitor		uF	5	6	3+6	3+6
	Speed(hi/mi/lo)		r/min	1600/1000/900/870	1300/1150/1080/1030	1380/1300/1200/1130+1360/1290/1200/1100	1380/1300/1200/1130+1360/1290/1200/1100
Max pressure		MPa	4.0	4.0	4.5	3.8	
Refrigerant type			R410A	R410A	R410A	R410A	
Refrigerant piping	Liquid side/Gas side	mm	Φ9.52/Φ15.88	Φ9.52/Φ19.05	Φ9.52/Φ19.05	Φ9.52/Φ19.05	
Power wiring		mm ²	3×1.0	3×1.0	3×1.0	3×1.0	
Operation temp		°C	16~32	16~32	16~32	16~32	
Ambient temp		°C	-7~43	-7~43	-7~43	-7~43	
Application area		m ²	28-50	40-70	55~95	60~105	
Stuffing Quantity(20'/40'/40'HQ)		set	90/168/162	75/168/180	75/168/180	75/168/180	

- Notes:**
1. Nominal cooling capacities are based on the following conditions:
Indoor temp: 27°CDB, 19°CWB; Outdoor temp: 35°CDB; Equivalent ref. piping: 7.5m (horizontal);
 2. Nominal heating capacities are based on the following conditions:
Indoor temp: 20°CDB; Outdoor temp: 7°CDB, 6°CWB; Equivalent ref. piping: 7.5m (horizontal)
 3. Actual noise level may differ, depending on the room structure, etc, since these noise values are from an anechoic room.

1. Specifications

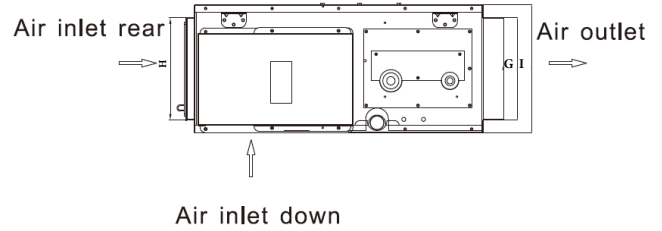
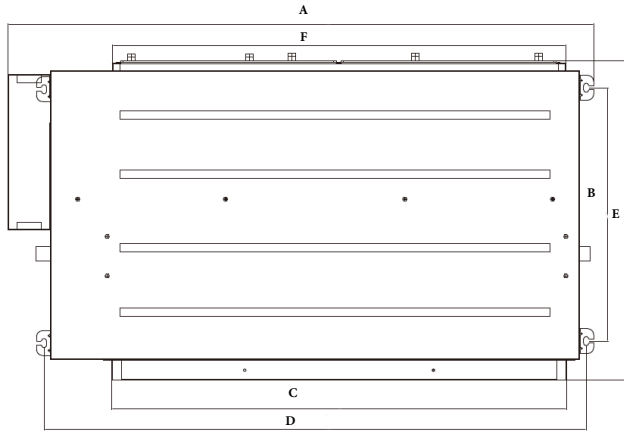
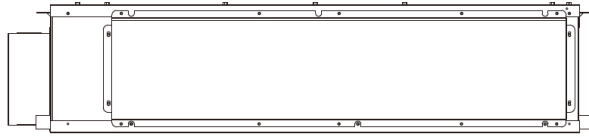
SCVC- Outdoor Unit

Model (Top Discharge Condensing Unit)		SCVC224S2A-GTC070	SCVC236S2A-GLC105	SCVC248S2A-GLC140	SCVC260S2A-GLC160	
Power supply	V-Hz -Ph	208-230V/1Ph/60Hz	208-230V/1Ph/60Hz	208-230V/1Ph/60Hz	208-230V/1Ph/60Hz	
Max. input consumption	W	2620	3600	6125	6900	
Max. current	A	13.2	23	30.93	34.85	
MCA	A	16.5	28.5	38.5	43.5	
MOP	A	30	50	60	70	
Compressor	Model	PA240M2A-3MTU2	GVS295KAA	ABT042KTA	ABT054KAA	
	Type	Rotary	Rotary	Scroll	Scroll	
	Brand	GMCC	LG	LG	LG	
	Qty	1	1	1	1	
	Capacity	W	7220	8397	12368	15815
	Input	W	2475	2933	3980	4820
	Rated current(RLA)	A	11.75	13.6	17.5	21.5
	LRA	A	60	66.5	120	120
	Thermal protector		Inner	Inner	Inner	Inner
	Refrigerant oil	ml	440	540	1360	1360
Refrigerant		R410a	R410a	R410a	R410a	
Outdoor fan motor	Model	YDK-160-6P2	YDK-160-6P2	YDK-230-6P2	YDK-230-6P2	
	Brand	Lvzhi	Lvzhi	Lvzhi	Lvzhi	
	Drive	type	AC	AC	AC	AC
	Qty		1.00	1.00	1.00	1.00
	Input	W	244	244	331	331
	Capacitor	uF	6μF/450V	6μF/450V	12μF/450V	12μF/450V
	Speed	r/min	1100	1100	1095	1095
Outdoor coil	Number of rows		1	1	1	
	Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37	21x13.37	21x13.37
	Fin spacing	mm	1.4	1.4	1.4	1.4
	Fin type		Unhydrophilic aluminum	Unhydrophilic aluminum	Unhydrophilic aluminum	Unhydrophilic aluminum
	Coil length x height x width	mm	1428x588x13.37	1428x588x13.37	2150x798x13.37	2150x798x13.37
	Number of circuits		2	2	5	5
Tube O.D and type	mm		7.00	7.00	7.00	7.00
			Inner groove tube	Inner groove tube	Inner groove tube	Inner groove tube
Outdoor noise level	dB(A)	65	65	63	65	
Dimension	Bady (WxDxH)	mm	554x554x633	554x554x633	740x740x835	740x740x835
	Packing (WxDxH)	mm	575x575x660	575x575x660	760x760x875	760x760x875
Net/Gross weight	kg	46/49	46.5/49.5	92/96	74.5/79	
Refrigerant charge	g	R410A/1200	R410A/1650	R410A/2000	R410A/2100	
Throttle type		Indoor Piston	Indoor Piston	Indoor Piston	Indoor Piston	
Design pressure (high side/low side)	MPa	3.6/0.98	4.0/1.2	4.0/1.2	4.0/1.2	
Refrigerant piping	Liquid side/ Gas side	mm	Φ9.52/Φ15.88	Φ9.52/Φ19.05	Φ9.52/Φ19.05	Φ9.52/Φ19.05
	Max. refrigerant pipe length	m	20	20	20	20
	Max. difference between outdoor unit and indoor unit	m	10	10	10	10
Connection wiring	Power wiring	mm ²	3x2.5	3x4.0	3x5.0	3x6.0
	Signal wiring	mm ²	2x0.75	2x0.75	4x0.75	4x0.75
Ambient temp	°C	16~43	16~43	16~43	21~43	

2. Dimensional Drawings

SEMP - Ducted Fan Coil Indoor Unit

SEMP224(36,48,60)S2A-GCC070(105,140,160)



Model KBtu/h	A	B	C	D	E	F	G	H	I
24,36	1190	515	920	1100	643	920	207	207	260
48,60	1425	515	1155	1337	643	1155	207	207	260

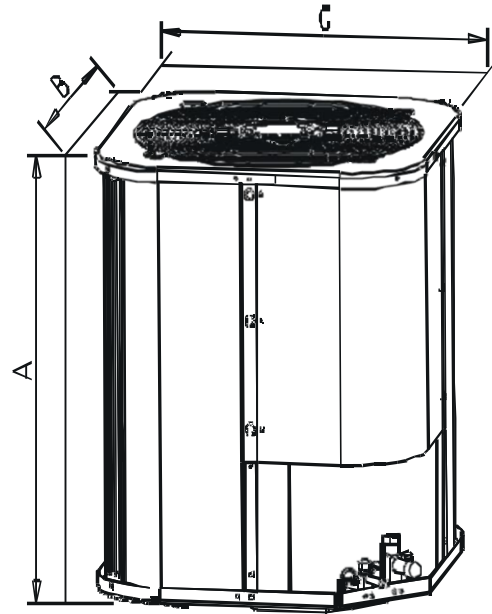
2. Dimensional Drawings

SCVC - Outdoor Unit

Unit:mm

Applicable for 18-60 series

Unit Model	Dimensions(mm)			Refrigerant Connection Line Size(mm)		
	A	B	C	Liquid(φ)		Vapor(φ)
				LF	RF	
24	633	554	554	9.52		15.88
36	633	554	554	9.52	12.7	19.05
	633	740	740			
	835	554	554			
48	835	740	740	9.52	12.7	19.05
60	835	740	740	9.52	12.7	19.05



3. Electrical Characteristics

Electrical Data - SCVC & SEMP

Ducted Fan Coil - SEMP

Model	Power Supply ¹					
	Hz	Volts	Min.	Max.	FLA	MOCP
			volts	volts		
SEMP224S2A-GCC070	60Hz	208-230	187	253	0.91	5
SEMP236S2A-GCC105	60Hz	208-230	187	253	1.5	5
SEMP248S2A-GCC140	60Hz	208-230	187	253	2.25	5
SEMP260S2A-GCC160	60Hz	208-230	187	253	2.25	5

Outdoor Unit - SCVC

Model	Power Supply ¹						Compressor
	Hz	Volts	Min.	Max.	MCA	MOCP	RLA
			volts	volts			
SCVC224S2A-GTC070	60Hz	208-230	187	253	15.8	25	11.75
SCVC236S2A-GLC105	60Hz	208-230	187	253	18.2	30	13.6
SCVC248S2A-GLC140	60Hz	208-230	187	253	23.0	40	17.5
SCVC260S2A-GLC160	60Hz	208-230	187	253	29.0	50	21.5
SCVC248S4A-GHC105	60Hz	208-230	187	253	20.5	35	15.5
SCVC260S4A-GCC160	60Hz	208-230	187	253	21.0	35	15.1

Abbreviations:

MCA: Minimum Circuit Amps; MOCP: Maximum Fuse Amps; RLA: Rated Load Amps; FLA: Full Load Amps