

OMEGA Round Flow Cassette Fixed Speed Split

SUBMITTAL DATA

208-230V/1/60Hz

Job:	Engineer:
Location:	Architect:
Schedule No.:	Date:
System Designation:	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

- Uniform Panel Design
- Intelligent Auto-Swing Function
- Round Way Air Flow
- Washable Filter Design
- 3-Speed Fan Motor
- Convenient Installation



1.Specifications

SECR - Cassette Indoor Unit

Model			SECR224S2A-GWC070	SECR236S2A-GWC105	SECR248S2A-GWC140	SECR260S2A-GWC160
Indoor power supply		V/Ph/Hz	208~230/1/60	208~230/1/60	208~230/1/60	208~230/1/60
Cooling	Capacity	Btu/h	24000	36000	48000	60000
		W	7032	10548	14064	17580
	Input	W	2733	4125	5566	6912
	Rated current	A	11.1	17.5	25.84	29.23
	Input(Indoor unit)	W	150	150	180	180
	Rated current(Indoor unit)	A	0.7	0.7	0.8	0.8
	EER	W/W	2.57	2.56	2.53	2.54
MCA		A	1.30	1.30	1.00	1.00
MOP		A	3.00	3.00	1.00	1.00
Indoor fan motor	Brand		KAIBANG	KAIBANG	KAIBANG	KAIBANG
	Model		S.TB-DQ-YDK-45Q-8P2	S.TB-DQ-YDK-45Q-8P2	S.TB-DQ-YDK-80Q-8P2	S.TB-DQ-YDK-80Q-8P2
	Input	W	102	102	160	160
	Capacitor	μF	2.5	2.5	4	4
	Speed(Hi/Me/Lo)	r/min	850/730/580	850/730/580	800/750/650	800/750/650
Indoor coil	Number of rows		2	2	2	2
	Tube pitch(a)xrow pitch(b)	mm	21×13.37	21×13.37	21×13.37	21×13.37
	Fin spacing	mm	1.45	1.45	1.45	1.45
	Fin type		Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic
	Tube outside dia. and type	mm	Φ7	Φ7	Φ7	Φ7
			inner grooved	inner grooved	inner grooved	inner grooved
Number of circuits		8	8	12	12	
Indoor air flow(High speed)		m ³ /h	1200	1200	1900	1900
Indoor noise level		dB(A)	45~52	45~52	51~57	51~57
Indoor unit	Dimension(W*D*H)	Body(mm)	840×840×230	840×840×230	840×840×285	840×840×285
		Panel(mm)	950×950×50	950×950×50	950×950×50	950×950×50
	Packing(W*D*H)	Body(mm)	920×920×310	920×920×310	920×920×375	920×920×375
		Panel(mm)	1030×1030×105	1030×1030×105	1030×1030×105	1030×1030×105
	Net/Gross weight	Body(Kg)	28/32	28/32	31/35	31/35
		Panel(Kg)	5.4/8.0	5.4/8.0	5.4/8.0	5.4/8.0
Max pressure		MPa	4.0	4.0	4.5	4.5
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
Drainage pipe		mm	25	25	25	25
Standard controller			remote controller			
Power wiring		mm ²	3×1.0	3×1.0	3×1.0	3×1.0
Operation temp		℃	16~32	16~32	16~32	16~32
Ambient temp		℃	18~43	18~43	18~43	18~43
Application area		m ²	28-50	40-70	55~95	60~105
Stuffing Quantity(20'/40'/40'HQ)		set	75/155/170	65/130/150	65/130/150	65/130/150

- Notes:**
- 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)
 - 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)
 - Actual noise level may differ, depending on the room structure, etc, since these noise values are from an anechoic room.

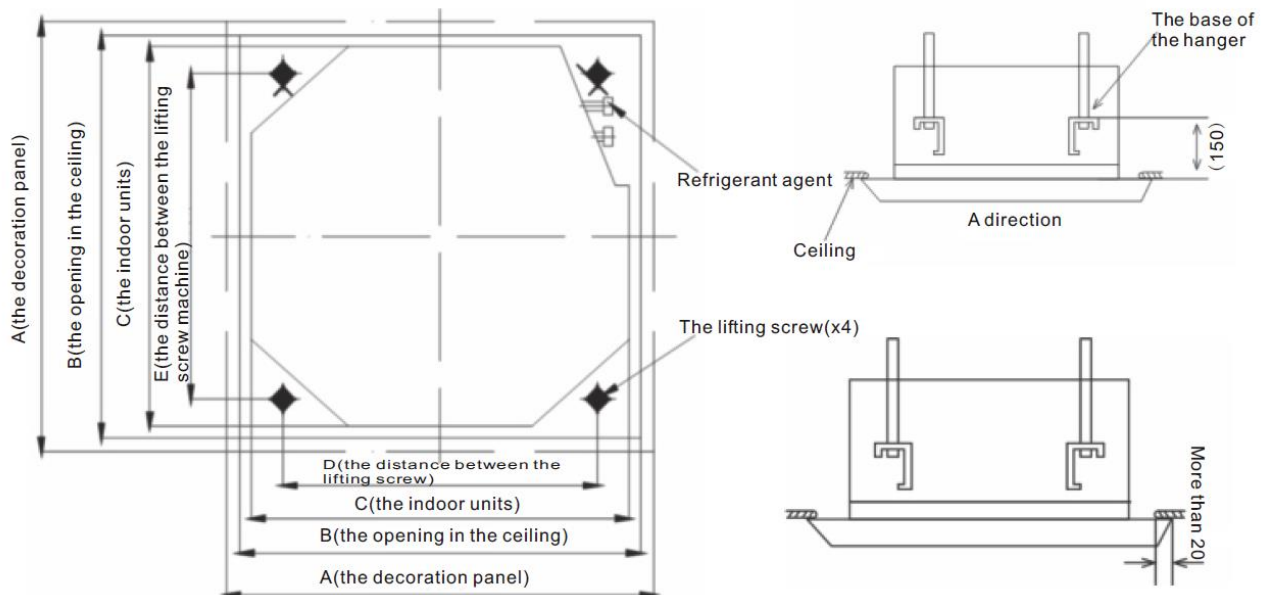
1.Specifications

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	
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	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	1428×588×13.37	1428×588×13.37	2150×798×13.37	2150×798×13.37
	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	554×554×633	554×554×633	740×740×835	740×740×835
	Packing (WxDxH)	mm	575×575×660	575×575×660	760×760×875	760×760×875
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	3×2.5	3×4.0	3×5.0	3×6.0
	Signal wiring	mm ²	2×0.75	2×0.75	4×0.75	4×0.75
Ambient temp		℃	16~43	16~43	16~43	21~43

2. Dimensional Drawings

SECR - Cassette Indoor Unit



unit: mm

Model (kBtu/h)	Dimensions(H)				
	A	B	C	D	E
For 18, 24, 36, 48, 60 series	950	890*	840	680	780

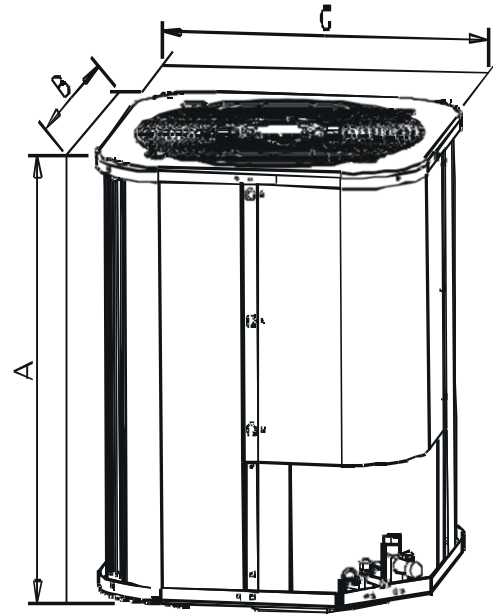
2. Dimensional Drawings

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 & SECR

Round Flow Cassette - SECR

Model	Power Supply ¹					
	Hz	Volts	Min.	Max.	FLA	MOCP
			volts	volts		
SECR224S2A-GWC070	60Hz	208-230	187	253	0.7	5
SECR236S2A-GWC105	60Hz	208-230	187	253	0.7	5
SECR248S2A-GWC140	60Hz	208-230	187	253	0.8	5
SECR260S2A-GWC160	60Hz	208-230	187	253	0.8	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