

Technical Manual

ACSON[®]
International
Air Conditioners

CEILING MOUNTED C SERIES

A5CM-C SERIES



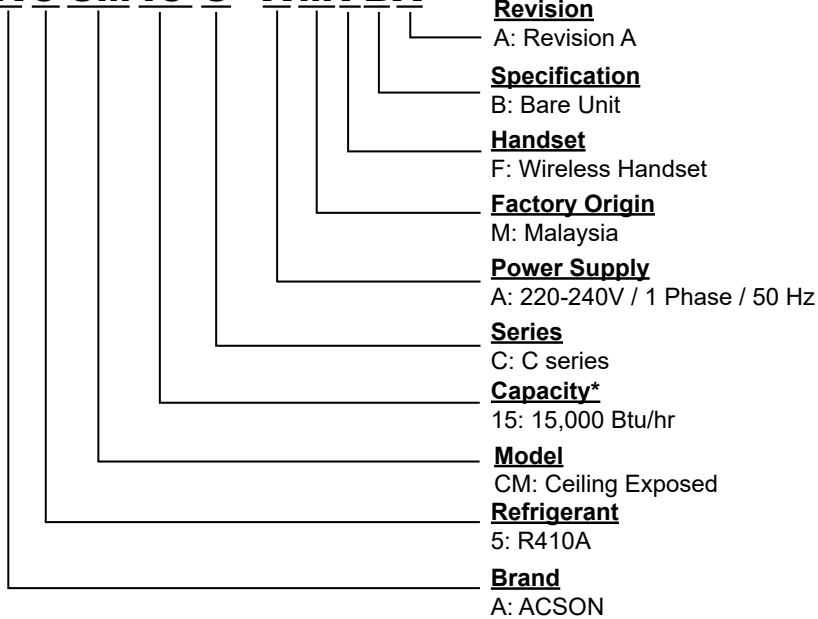
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Nomenclature

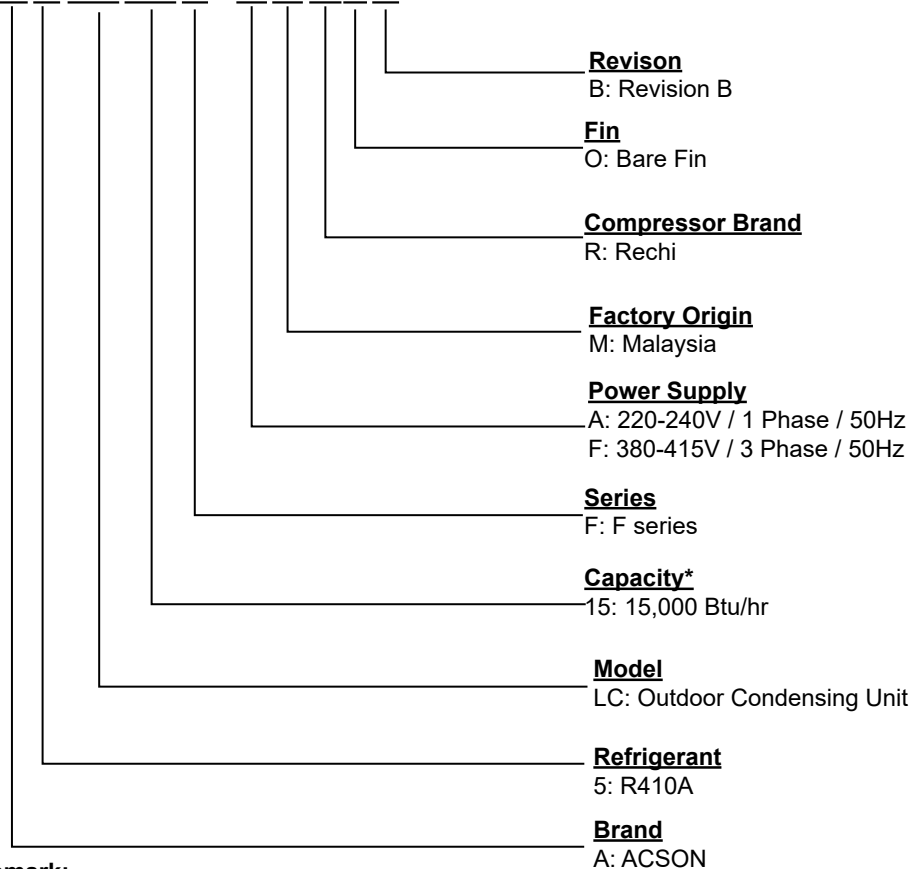
Indoor

A 5 CM15 C - A M F B A



Outdoor

A 5 LC15 F - A M R O B



Remark:

*: Capacity value under Nomenclature is an indication.

Please refer to Engineering and Physical Data for exact capacity value.

Product Line-Up

**Indoor Unit
A5CM**

Model		Classification									
		Handset		PCB	Fin		Refrigerant Control		Air Purification		Others
		GS02	SLM9	L208A EC	Bare Aluminium	Hydrophilic Coated (Blue)	Cap Tube	W/out Cap Tube	Saranet Filter	Ionizer	Convertible
COOLING ONLY	A5CM15C-AMFBA	X		X		X		X	X		
	A5CM20C-AMFBA	X		X		X		X	X		
	A5CM25C-AMFBA	X		X		X		X	X		
	A5CM30C-AMFBA	X		X		X		X	X		
	A5CM35C-AMFBA	X		X		X		X	X		
	A5CM40C-AMFBA	X		X		X		X	X		
	A5CM50C-AMFBA	X		X		X		X	X		
	A5CM62C-AMFBB	X		X		X		X	X		

**Outdoor Unit
A5LC**

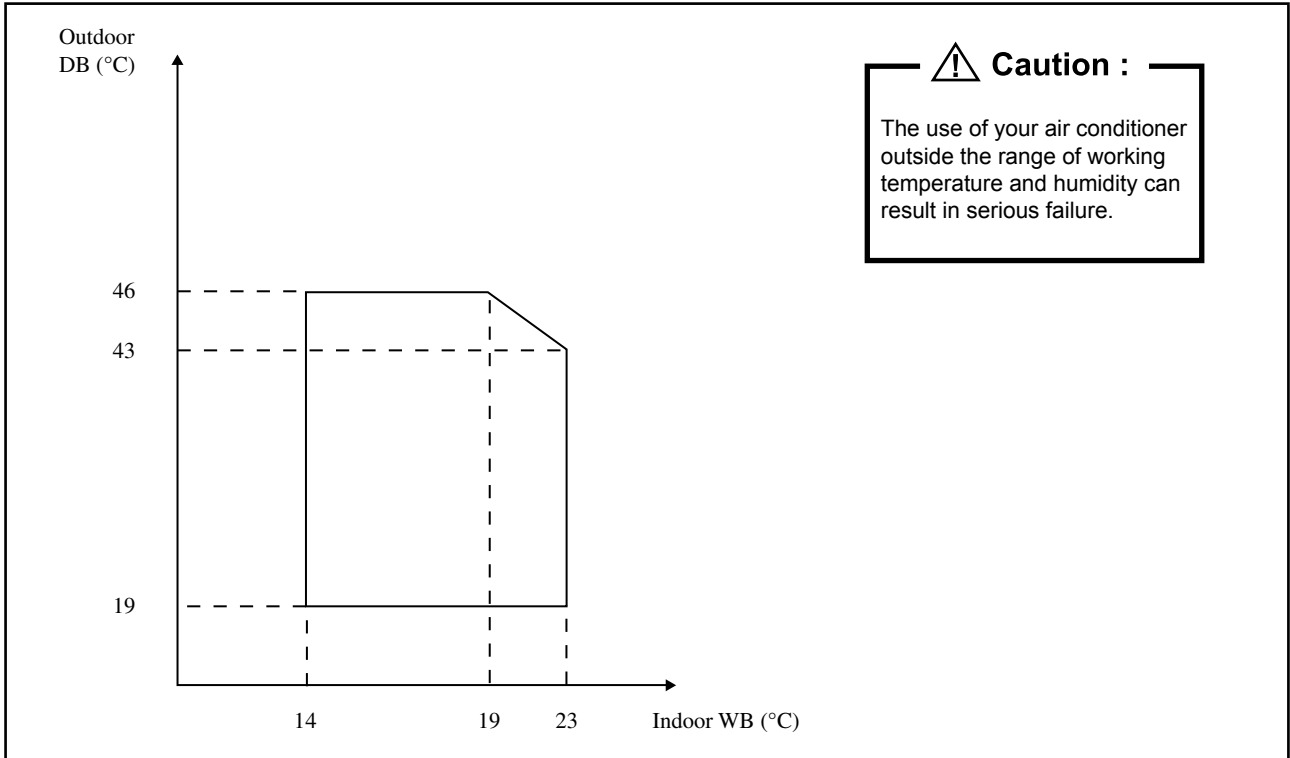
Model		Classification									
		Refrigerant Control		Fin		Safety Devices			Compressor		
		Cap Tube	W/out Cap Tube	Bare Aluminium	Hydrophilic Coated (Gold)	Contact	High Pressure Switch	Low Pressure Switch	Phase Sequencer	Rotary	Scroll
COOLING ONLY	A5LC15F-AMROB	X		X						X	
	A5LC20C-AMPOG	X		X						X	
	A5LC25C-AMPOG	X		X						X	
	A5LC28C-AMPOB	X		X						X	
	A5LC30C-AMPOA	X		X						X	
	A5LC35D-AMPOA	X		X		X	X	X		X	
	A5LC40D-FMCOB	X		X			X	X	X		X
	A5LC50D-FMCOB	X		X			X	X	X		X
	A5LC61D-FMCOB	X		X			X	X	X		X
	A5LC15F-AMRIB	X			X					X	
	A5LC20C-AMPIG	X			X					X	
	A5LC25C-AMPIG	X			X					X	
	A5LC28C-AMPIB	X			X					X	
	A5LC30C-AMPIA	X			X					X	
	A5LC35D-AMPIA	X			X	X	X	X		X	
	A5LC40D-FMCID	X			X		X	X	X		X
	A5LC50D-FMCID	X			X		X	X	X		X
	A5LC61D-FMCI	X			X		X	X	X		X

Application Information

Operating Range

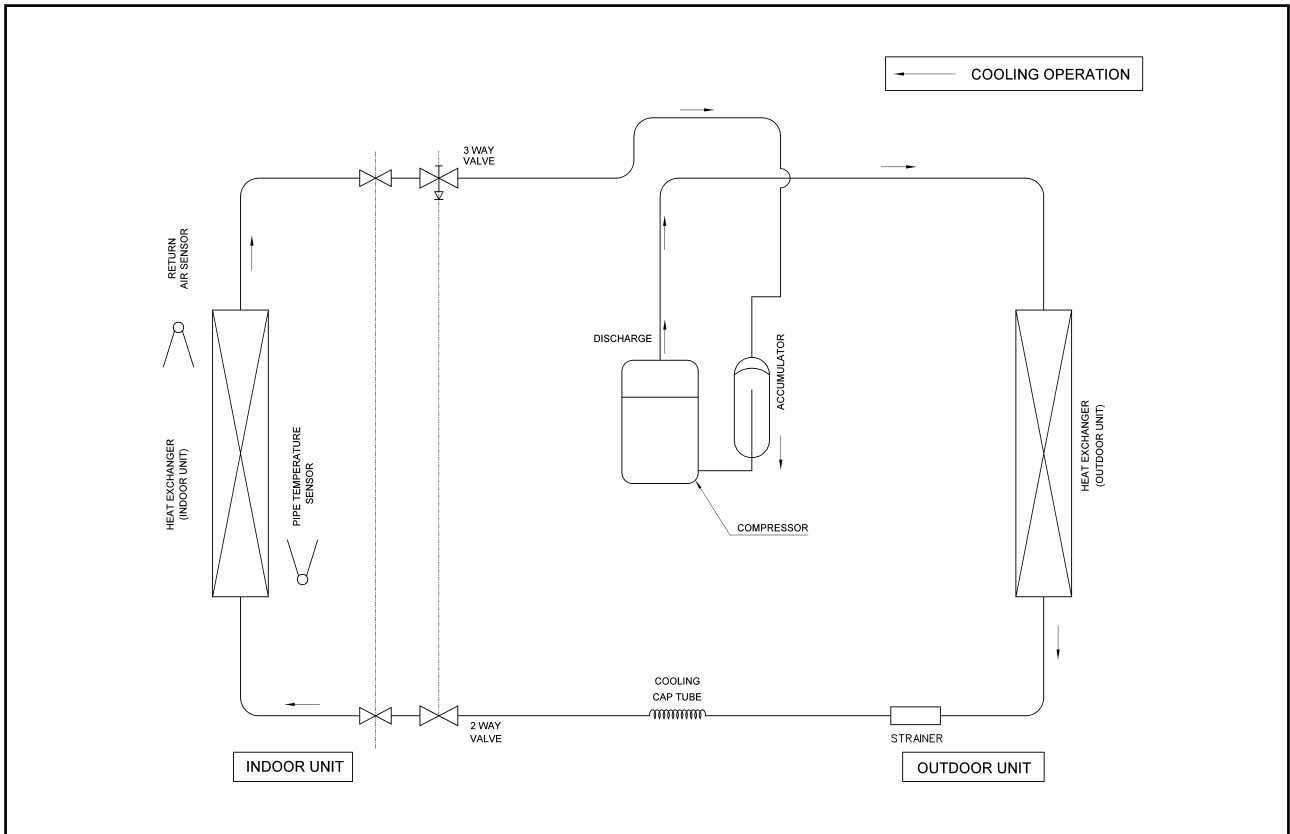
Ensure the operating temperature is in allowance range.

Cooling

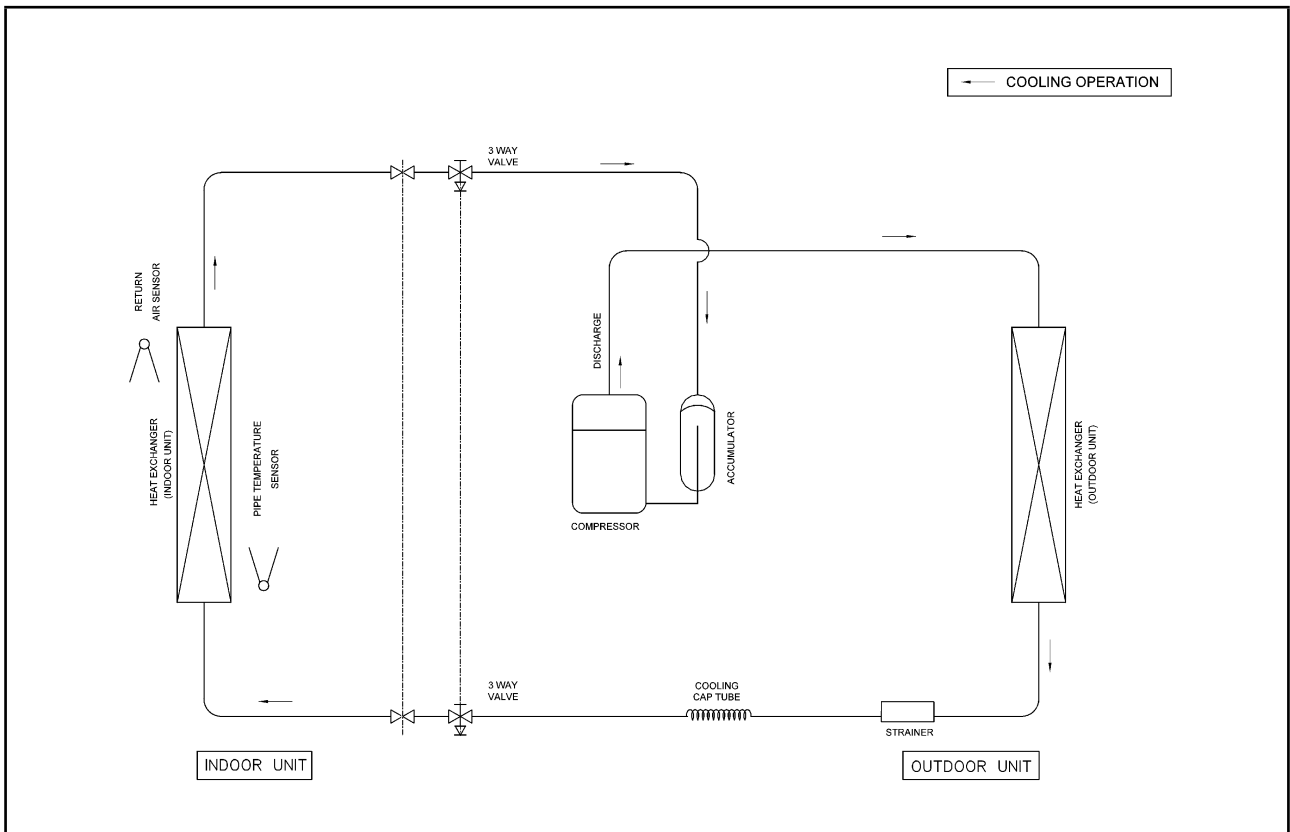


Refrigerant Circuit Diagrams

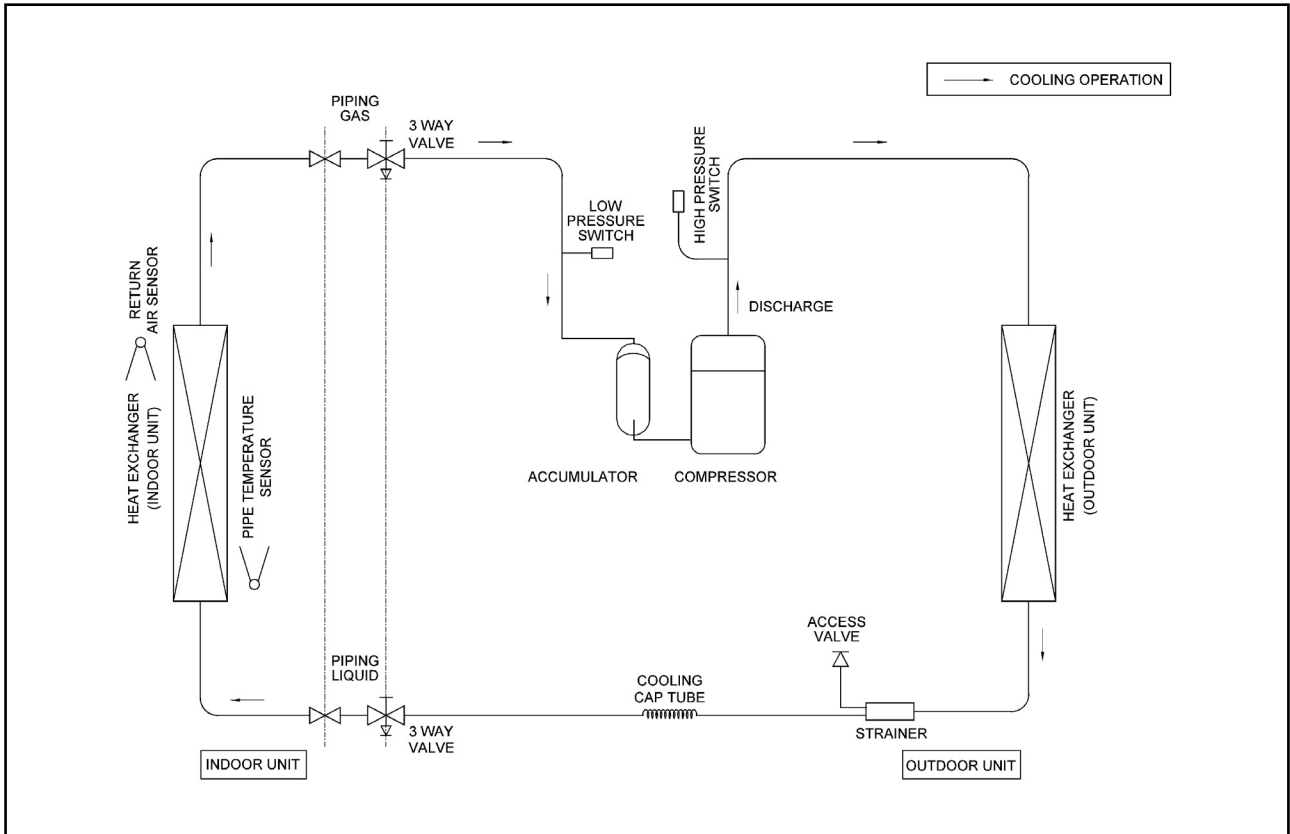
Model: A5CM15C-A5LC15F / A5CM20C-A5LC20C / A5CM25C-A5LC25C



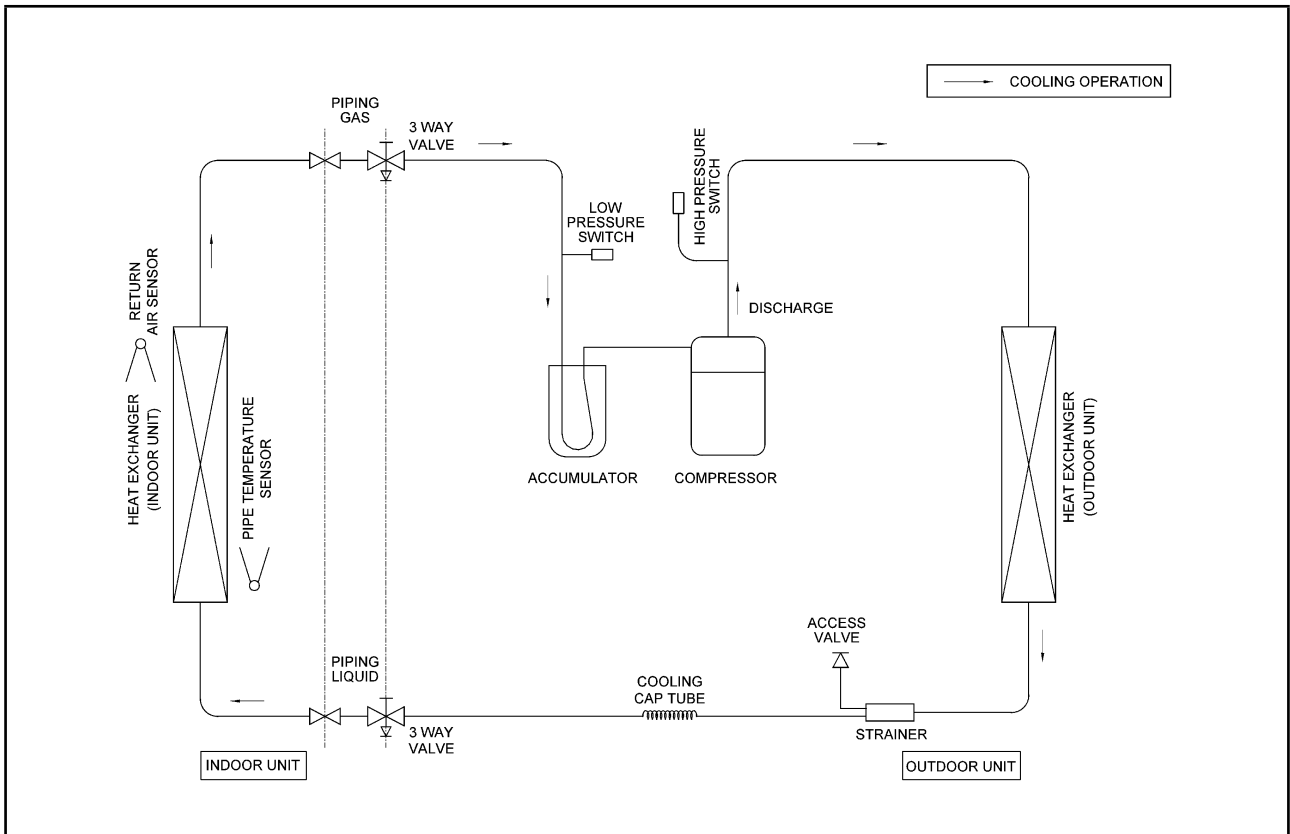
Model: A5CM30C-A5LC28/30C



Model: A5CM35C-A5LC35D



Model: A5CM40C-A5LC40D / A5CM50C-A5LC50D / A5CM62C-A5LC61D



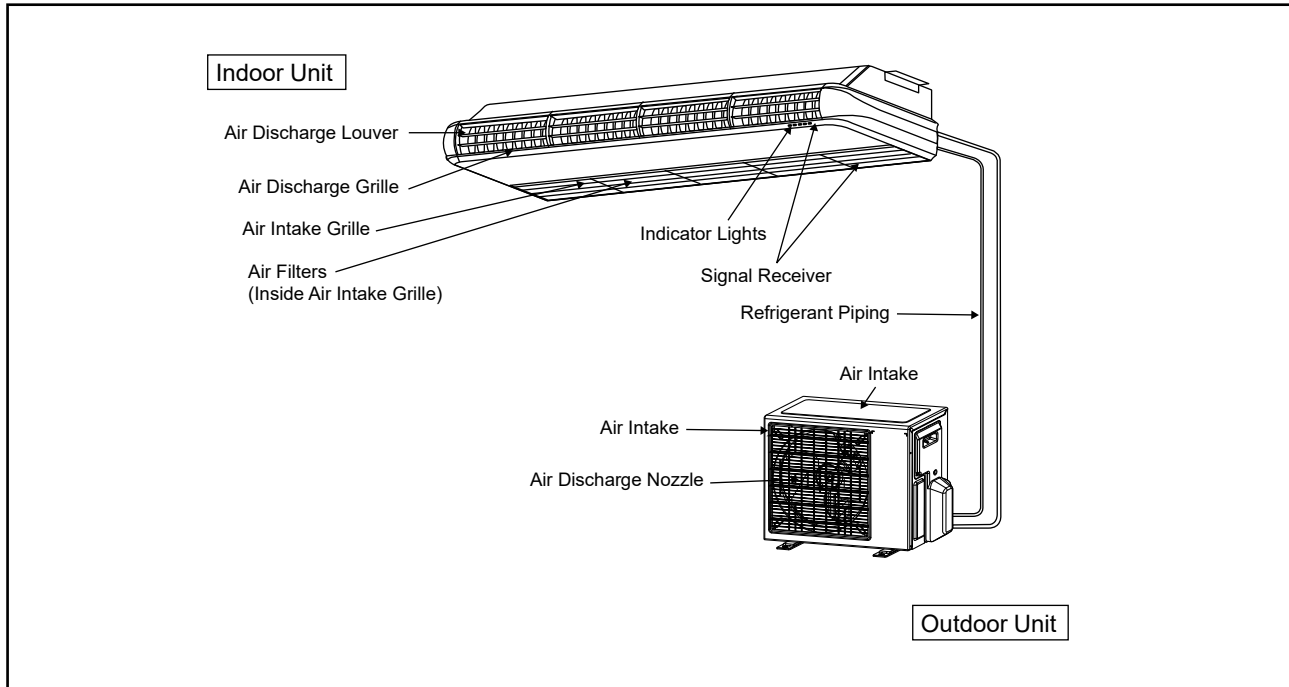
Installation Guideline



Caution

Sharp edges and coil surfaces are potential injury hazard. Avoid from contact with them.

Installation Diagram

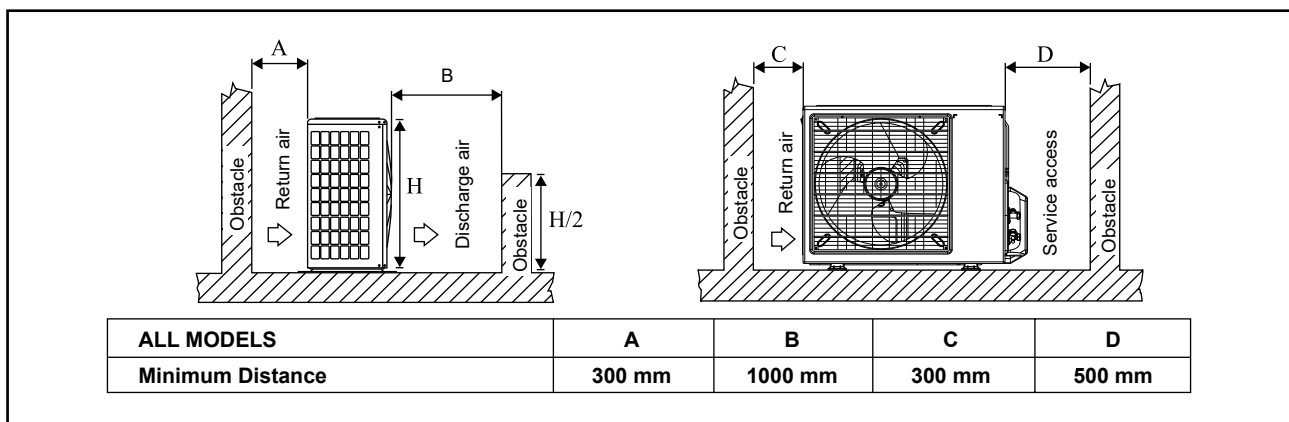


Outdoor Clearance



Caution

If the condensing unit is operated in an atmosphere containing oils (including machine oils), salt (coastal area), sulphide gas (near hot spring, oil refinery plant), such as substances may lead to failure of the unit.



Cable Size

Model	Unit	A5CM15C	A5CM20C	A5CM25C	A5CM30C		A5CM35C
		A5LC15F	A5LC20C	A5LC25C	A5LC28C	A5LC30C	A5LC35D
Power supply cable size	mm ²	2.5	2.5	2.5	2.5	2.5	4.0
Number of wire		3	3	3	3	3	3
Interconnection cable size	mm ²	2.5	2.5	2.5	2.5	2.5	2.5
Number of wire		3	3	3	3	3	4
Recommended fuse	A	15	16	20	20	25	25

Model	Unit	A5CM40C	A5CM50C	A5CM62C
		A5LC40D	A5LC50D	A5LC61D
Power supply cable size	mm ²	4.0	4.0	4.0
Number of wire		3	3	3
Interconnection cable size	Indoor Outdoor	2.5 2.5	2.5 2.5	2.5 2.5
Number of wire	Indoor Outdoor	4 4 & 3	4 4 & 3	4 4 & 3
Recommended fuse	A	16	20	25

Refrigerant Piping

If the pipe length is too long, both the capacity and the reliability of the unit will decrease. As the number of bends increases, resistance of the piping system to the refrigerant flow increases and thus lowering the capacity, as a result the compressor may become defective. Always choose the shortest path and follow the recommendation as tabulated as below

Model	Indoor	A5CM15C	A5CM20C	A5CM25C	A5CM30C		A5CM35C
	Outdoor	A5LC15F	A5LC20C	A5LC25C	A5LC28C	A5LC30C	A5LC35D
Max. Length, m		20	30	30	20	45	50
Max. Elevation, m		10	15	15	10	25	30

Model	Indoor	A5CM40C	A5CM50C	A5CM62C
	Outdoor	A5LC40D	A5LC50D	A5LC61D
Max. Length, m		50	50	35
Max. Elevation, m		30	30	15

Piping sizes (flare connection type) are as follows:

R410A

Model	Indoor	A5CM15C	A5CM20C	A5CM25C	A5CM30C		A5CM35C
	Outdoor	A5LC15F	A5LC20C	A5LC25C	A5LC28C	A5LC30C	A5LC35D
Liquid, mm / in		6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
Gas, mm / in		12.70 (1/2")	12.70 (1/2")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")

Model	Indoor	A5CM40C	A5CM50C	A5CM62C
	Outdoor	A5LC40D	A5LC50D	A5LC61D
Liquid, mm / in		9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
Gas, mm / in		15.88 (5/8")	15.88 (5/8")	19.05 (3/4")

Additional Charge

The refrigerant is pre-charged in the outdoor unit. If the piping length is less than 7.5m, then additional charge after vacuuming is not necessary. If the piping length is more than 7.5m, then use the additional charge (g) per additional 1m length as tabulated:

R410A - Cooling Only

Indoor	A5CM15C	A5CM20C	A5CM25C	A5CM30C		A5CM35C	A5CM40C
Outdoor	A5LC15F	A5LC20C	A5LC25C	A5LC28C	A5LC30C	A5LC35D	A5LC40D
Add. Charge, g/m	18	22	10	24	24	27	24

Indoor	A5CM50C	A5CM62C
Outdoor	A5LC50D	A5LC61D
Add. Charge, g/m	24	21

Example:

A5CM15C & A5LC15F with 18m piping length, additional piping length is 5.5m.

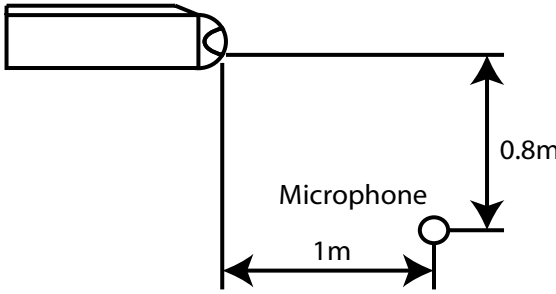
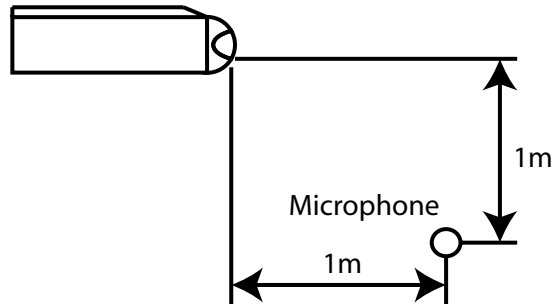
Thus, Additional charge = 5.5[m] x 18[g/m]
= 99[g]

Note: Installation and maintenance are to be performed only by qualified personnel who are familiar with local codes and regulations, and experienced with this type of equipment.

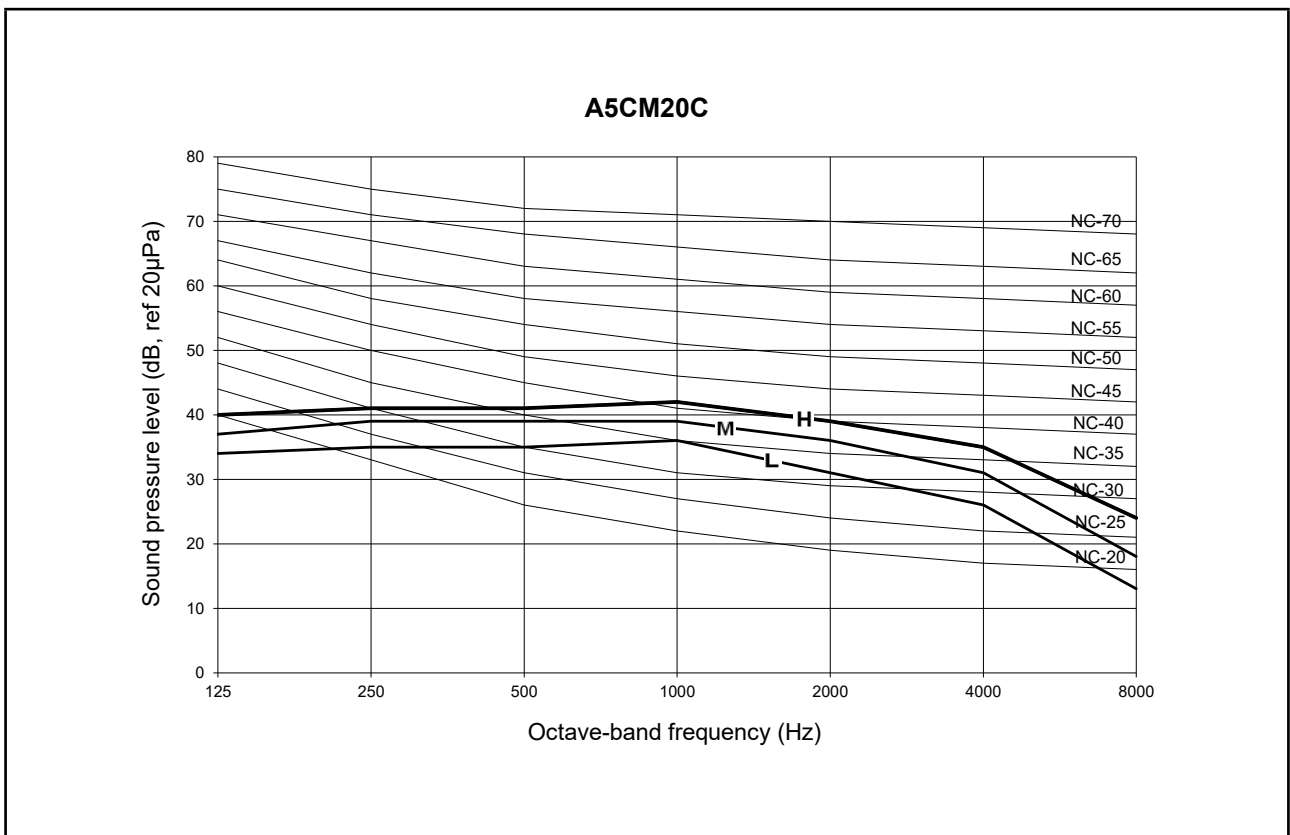
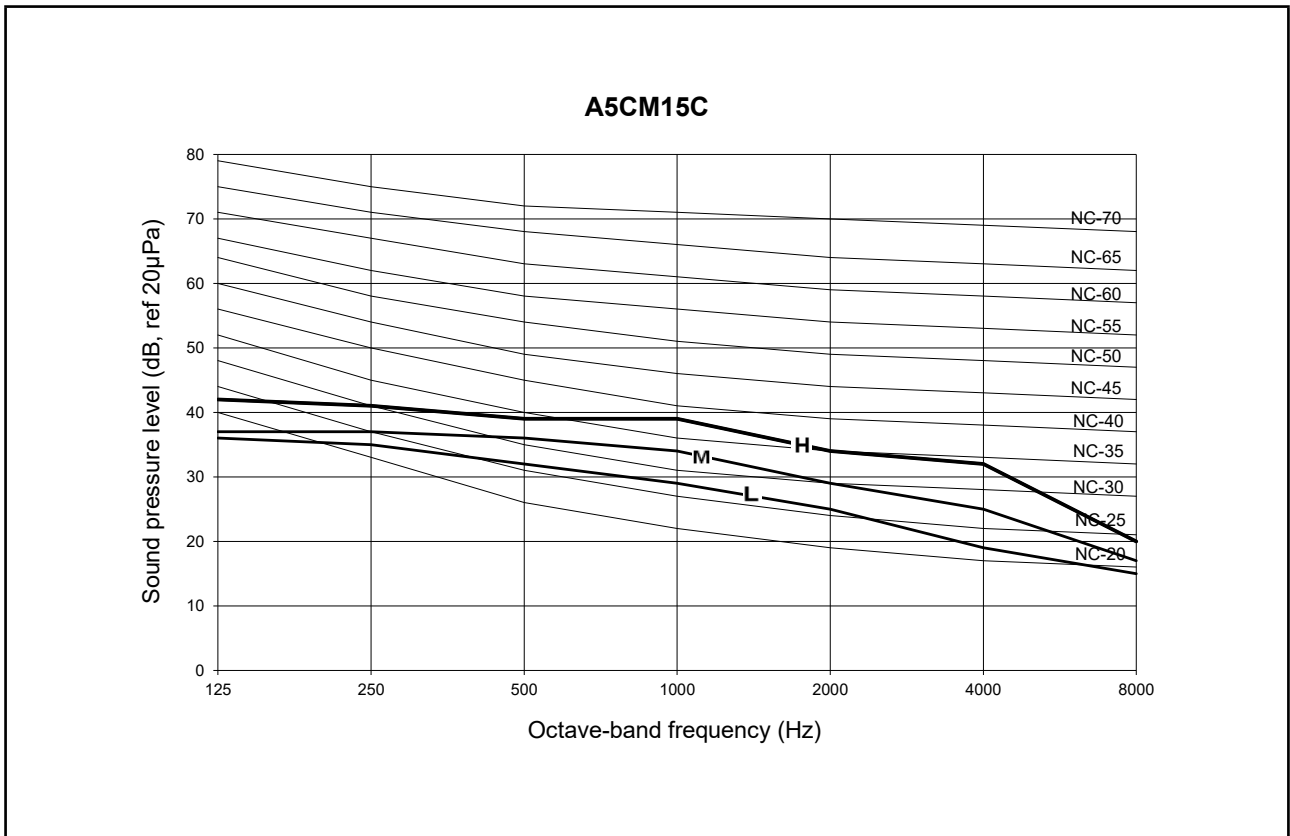
Sound Data

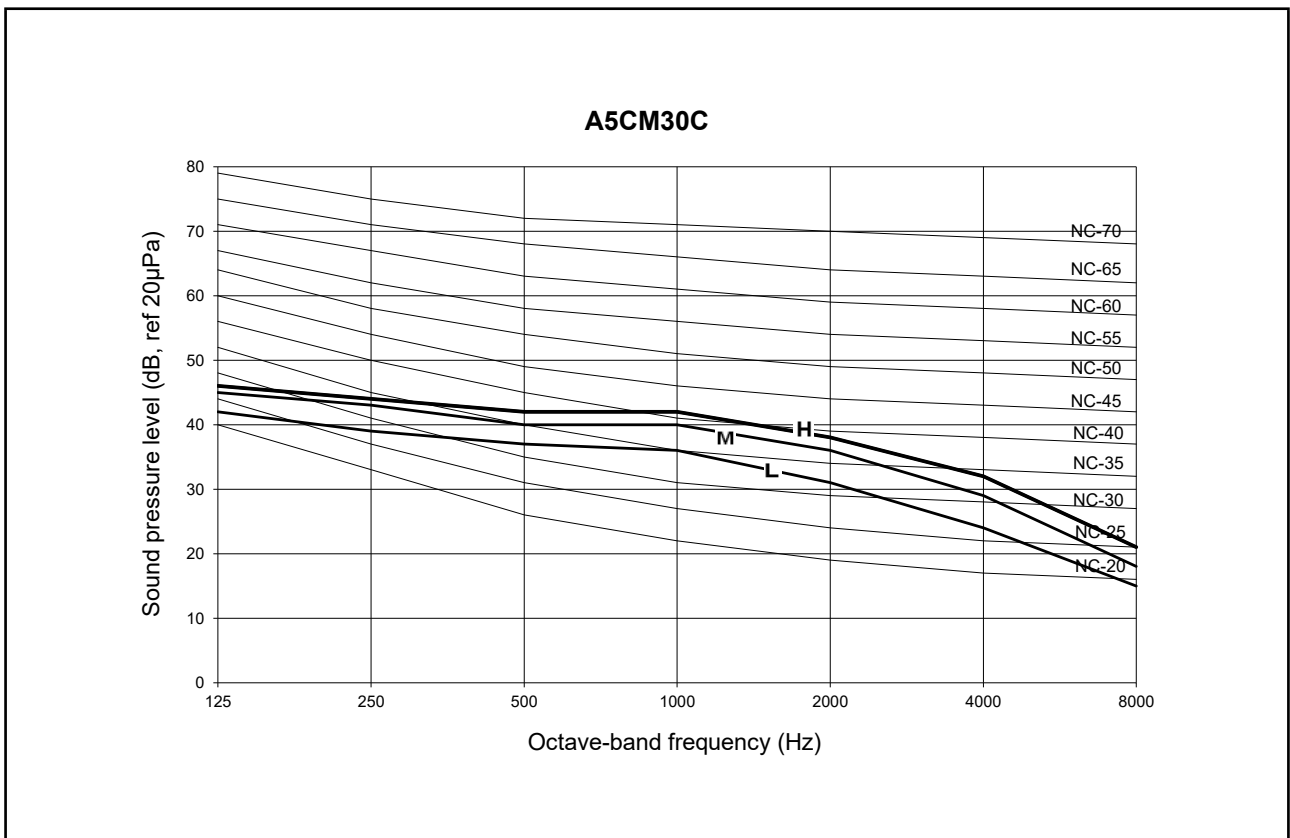
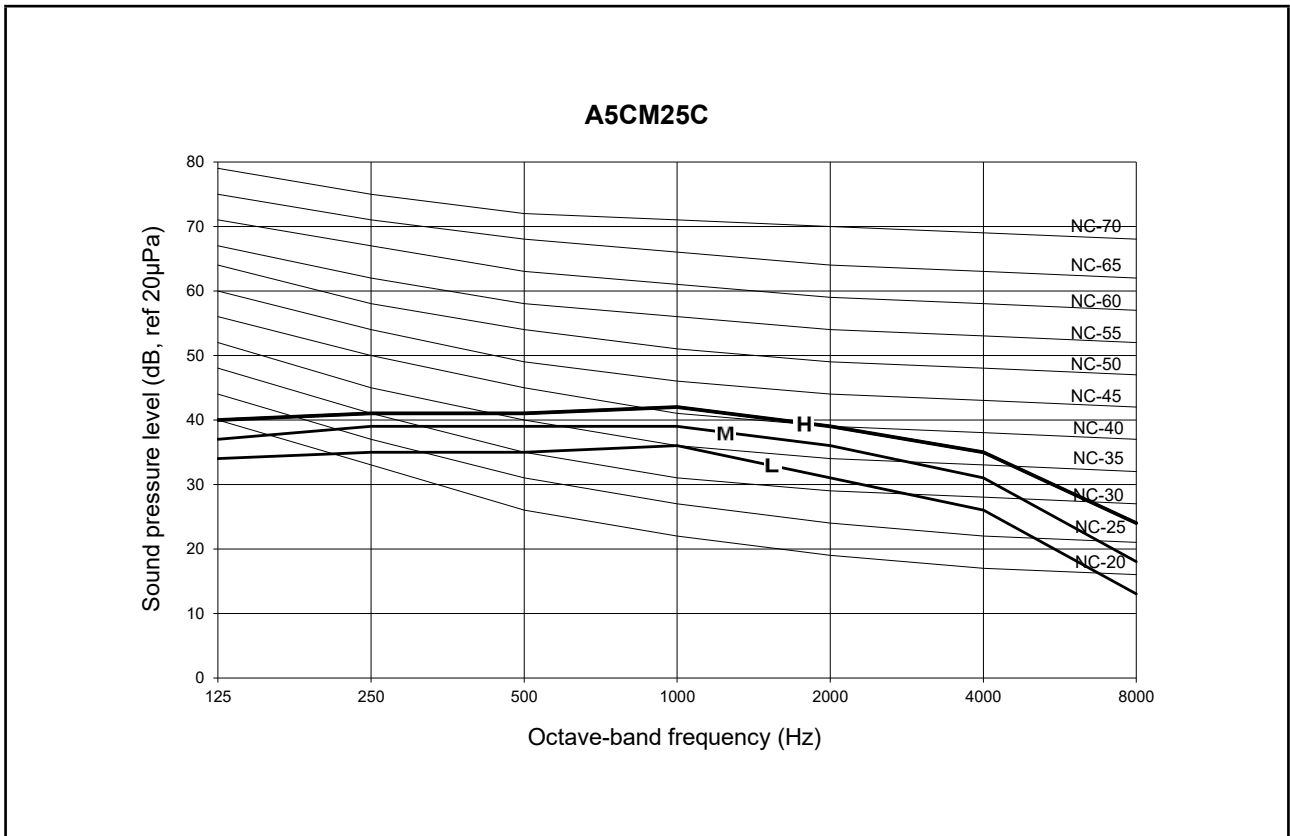
Sound Pressure Level

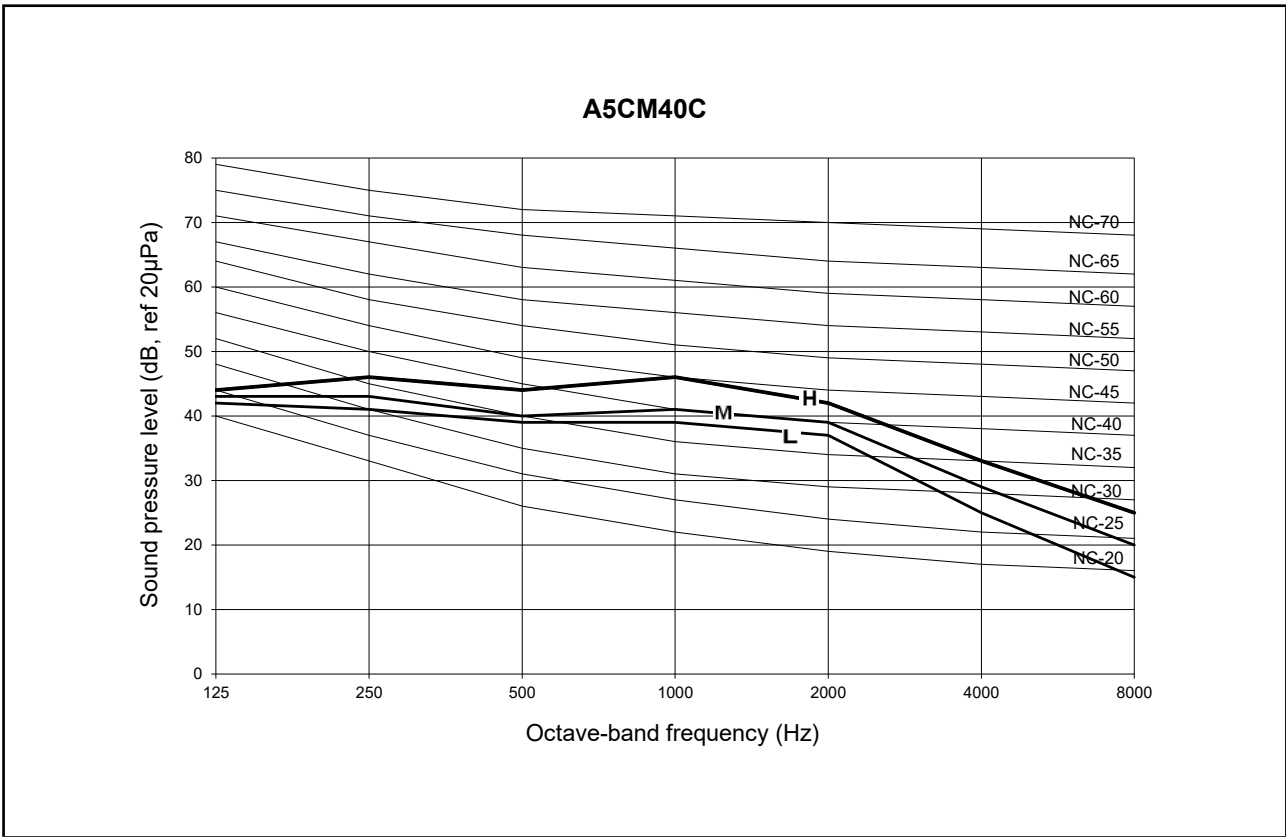
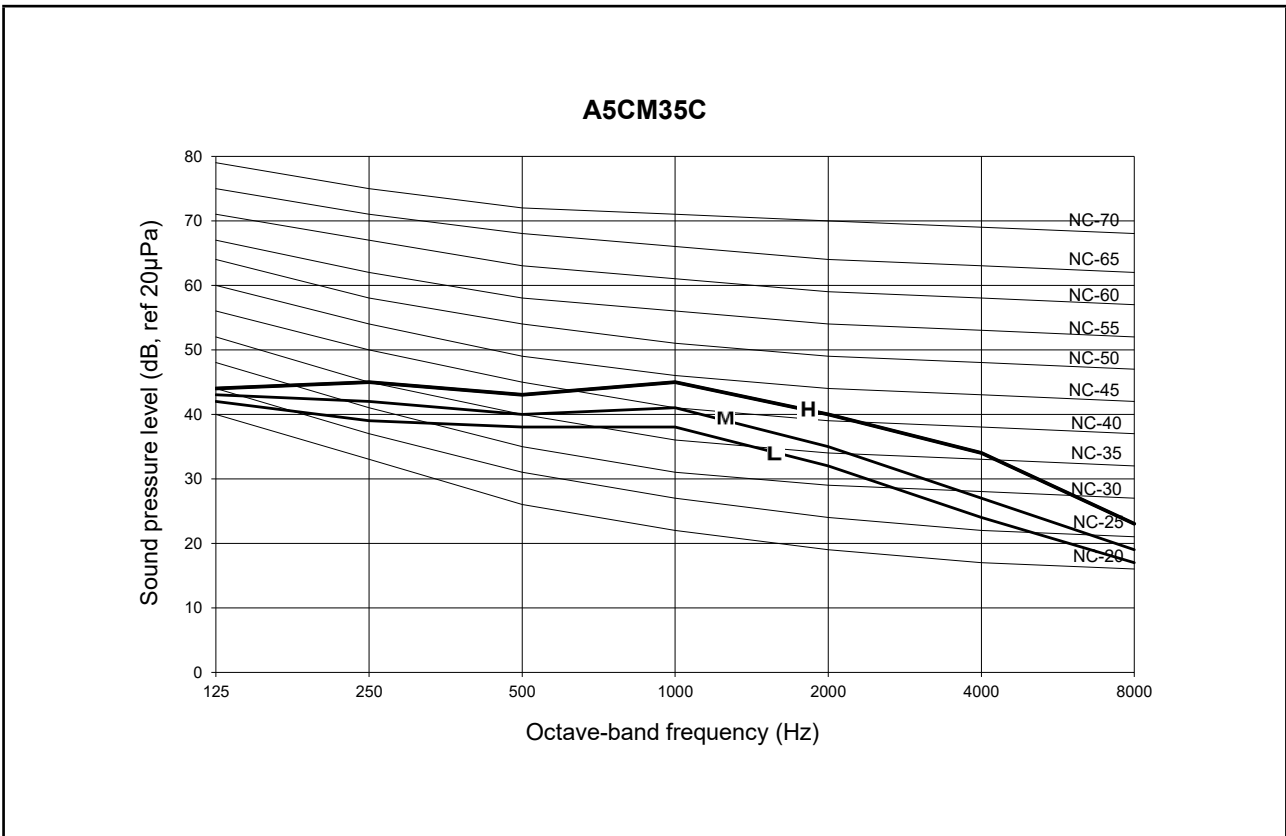
Model	Speed	1/1 Octave Sound Pressure (dB, ref 20 μ Pa)							A (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
A5CM15C	High	42	41	39	39	34	32	20	43	38
	Med	37	37	36	34	29	25	17	38	33
	Low	36	35	32	29	25	19	15	34	28
A5CM20C	High	40	41	41	42	39	35	24	46	41
	Med	37	39	39	39	36	31	18	43	38
	Low	34	35	35	36	31	26	13	39	35
A5CM25C	High	40	41	41	42	39	35	24	46	41
	Med	37	39	39	39	36	31	18	43	38
	Low	34	35	35	36	31	26	13	39	35
A5CM30C	High	46	44	42	42	38	32	21	46	41
	Med	45	43	40	40	36	29	18	44	39
	Low	42	39	37	36	31	24	15	40	35
A5CM35C	High	44	45	43	45	40	34	23	48	44
	Med	43	42	40	41	35	27	19	44	40
	Low	42	39	38	38	32	24	17	41	37
A5CM40C	High	44	46	44	46	42	33	25	49	45
	Med	43	43	40	41	39	29	20	45	40
	Low	42	41	39	39	37	25	15	43	38
A5CM50C	High	45	50	49	51	46	39	31	54	50
	Med	43	48	47	49	44	36	28	52	48
	Low	43	47	46	47	42	33	25	50	46
A5CM62C	High	35	46	50	53	50	45	38	56	52
	Med	33	44	47	50	47	42	34	53	49
	Low	27	37	41	43	39	33	25	46	42

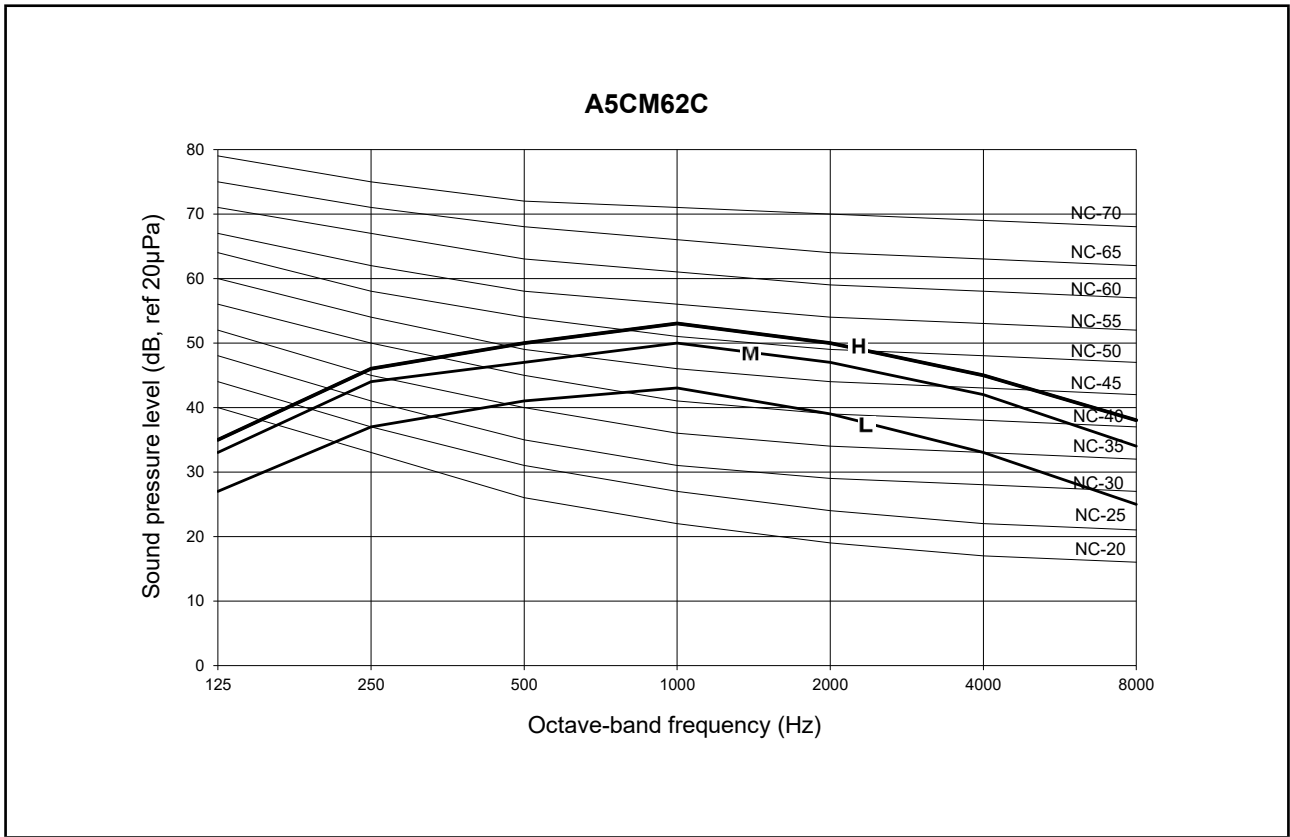
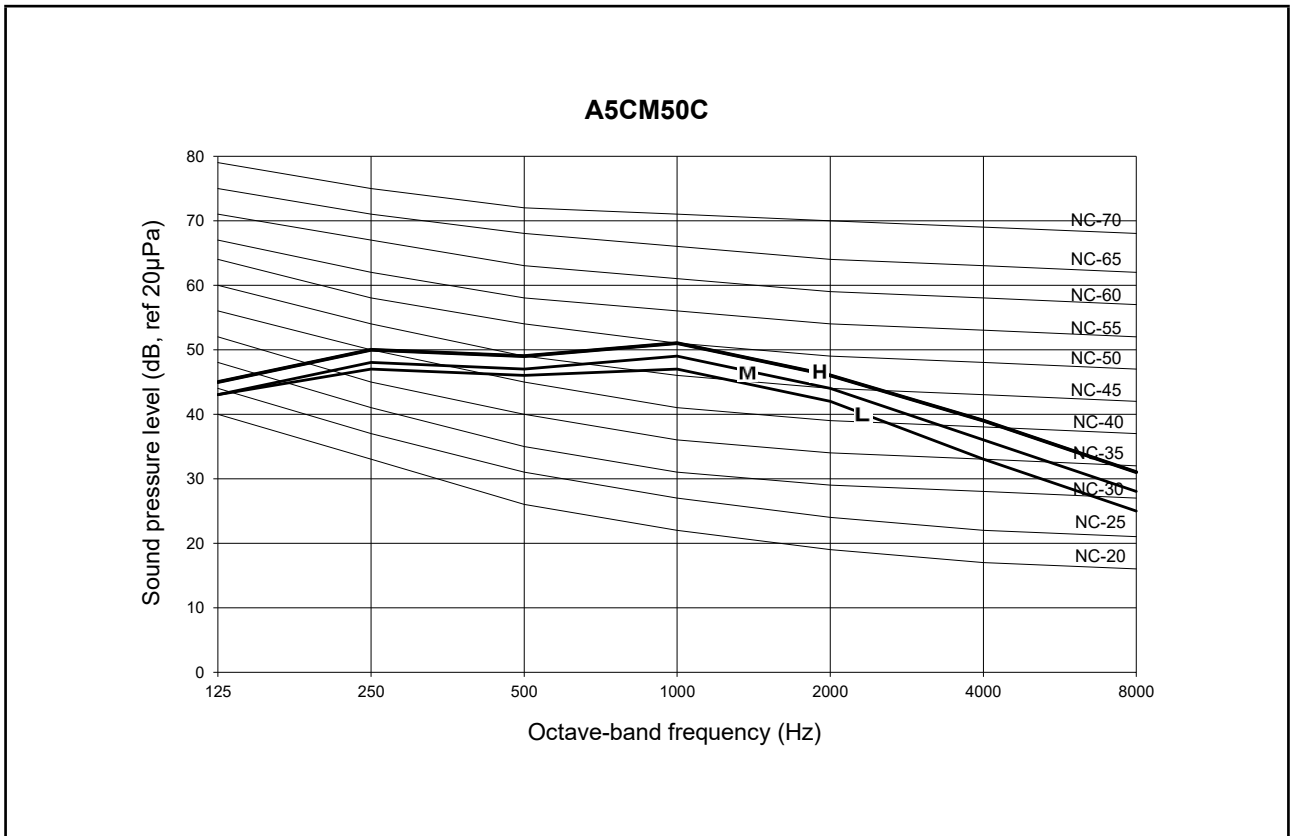
Model	Measuring Location
<p>A5CM15C A5CM20C A5CM25C</p>	 <p>Standard: JIS C 9612</p>
<p>A5CM30C A5CM35C A5CM40C A5CM50C A5CM62C</p>	 <p>Standard: JIS B 8616</p>

NC Curve









Engineering & Physical Data

Engineering Data - R410A MODEL

MODEL	INDOOR UNIT		A5CM15C	A5CM20C	A5CM25C	A5CM30C	
	OUTDOOR UNIT		A5LC15F	A5LC20C	A5LC25C	A5LC28C	
NOMINAL COOLING CAPACITY	Btu/h		12500	18000	21000	27000	
	W		3660	5270	6150	7913	
NOMINAL TOTAL INPUT POWER (COOLING)	W		1270	1760	2020	2754	
NOMINAL RUNNING CURRENT (COOLING)	A		5.69	7.80	9.00	12.60	
EER	W/W		2.88	3.00	3.05	2.87	
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP TUBE				
REFRIGERANT CHARGE	kg		0.95	1.00	1.70	1.70	
POWER SOURCE	V/Ph/Hz		220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	
REFRIGERANT TYPE			R410A				
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION	MANUAL (HORIZONTAL & VERTICAL)				
			WIRELESS REMOTE CONTROL				
	AIR FLOW	HIGH	CFM	550	608	608	792
		MEDIUM	CFM	484	586	586	707
		LOW	CFM	382	466	466	613
	SOUND PRESSURE LEVEL (H/M/L)		dBA	43 / 38 / 34	46 / 43 / 39	46 / 43 / 39	46 / 44 / 40
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	235 x 1203 x 680	235 x 1203 x 680	235 x 1203 x 680	235 x 1553 x 680
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	293 x 1278 x 749	293 x 1278 x 749	293 x 1278 x 749	293 x 1628 x 749
	UNIT WEIGHT		kg	30	31	31	41
	CONDENSATE DRAIN SIZE		mm	19.05			
	FAN	TYPE		SIROCCO			
		DRIVE		DIRECT			
	FAN MOTOR	TYPE		PERMANENT SPLIT CAPACITOR			
		INDEX OF PROTECTION (IP)		20	20	20	20
		INSULATION GRADE		B	B	B	B
		RATED INPUT POWER	W	84	81	81	128
		RATED RUNNING CURRENT	A	0.36	0.35	0.35	0.55
		MOTOR OUTPUT	W	45	95	95	85
	POLES			4	4	4	4
	COIL	TUBE	MATERIAL	COPPER			
			DIAMETER	7.00			
		FIN	MATERIAL	ALUMINIUM			
			FACE AREA	m ²	0.160	0.160	0.160
	ROW		2	3	3	3	
AIR QUALITY	FILTER	TYPE	SARANET				
		QUANTITY	3	3	3	4	
CASING		COLOUR	WHITE				
AIR FLOW		CFM	827	1430	1600	1712	
SOUND PRESSURE LEVEL		dBA	48	52	52	54	
UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	550 x 658 x 273	651 x 855 x 328	651 x 855 x 328	753 x 855 x 328	
PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	580 x 775 x 355	693 x 990 x 415	693 x 990 x 415	793 x 990 x 415	
UNIT WEIGHT		kg	29	43	47	57	
PIPE CONNECTION	TYPE		FLARE VALVE				
	SIZE	LIQUID	mm	6.35	6.35	6.35	9.52
		GAS	mm	12.70	12.70	15.88	15.88
FAN	TYPE		PROPELLER				
	DRIVE		DIRECT				
FAN MOTOR	TYPE		PERMANENT SPLIT CAPACITOR				
	INDEX OF PROTECTION (IP)		23	24	24	23	
	INSULATION GRADE		B	F	F	F	
	RATED INPUT POWER	W	51	78	121	124	
	RATED RUNNING CURRENT	A	0.23	0.34	0.53	0.54	
	MOTOR OUTPUT	W	20	32	61	66	
POLES			6	6	6	6	
COMPRESSOR	TYPE		ROTARY				
	OIL TYPE		RB68EP	FV50S	FV50S	FV50S	
	OIL AMOUNT	cm ³	320	670	670	1130	
	RATED INPUT POWER (COOLING)	W	1135	1601	1818	2480	
	RATED RUNNING CURRENT (COOLING)	A	5.10	7.11	8.12	11.31	
LOCKED ROTOR AMP.	A	24.5	32.0	32.3	63.0		
COIL	TUBE	MATERIAL	COPPER				
		DIAMETER	7.00				
	FIN	MATERIAL	ALUMINIUM				
		FACE AREA	m ²	0.32	0.51	0.50	0.61
ROW		2	1	2	2		
CASING		COLOUR	IVORY WHITE				

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING
INDOOR: 27°C DB / 19°C WB
OUTDOOR: 35°C DB / 24°C WB

Engineering Data - R410A MODEL

MODEL	INDOOR UNIT			A5CM30C	A5CM35C	A5CM40C	A5CM50C	
	OUTDOOR UNIT			A5LC30C	A5LC35D	A5LC40D	A5LC50D	
NOMINAL COOLING CAPACITY		Btu/h		29000	35000	41000	44500	
		W		8490	10250	12010	13040	
NOMINAL TOTAL INPUT POWER (COOLING)		W		2950	3800	4100	4900	
NOMINAL RUNNING CURRENT (COOLING)		A		13.70	16.90	6.58	8.52	
EER		W/W		2.88	2.70	2.93	2.66	
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP TUBE				
REFRIGERANT CHARGE		kg		2.00	1.90	3.20	3.05	
POWER SOURCE		V/Ph/Hz		220-240 / 1 / 50	220-240 / 1 / 50	380-415 / 3 / 50	380-415 / 3 / 50	
REFRIGERANT TYPE				R410A				
INDOOR UNIT	CONTROL		AIR DISCHARGE OPERATION	MANUAL (HORIZONTAL & VERTICAL)				
				WIRELESS REMOTE CONTROL				
	AIR FLOW	HIGH	CFM		792	1015	1107	1247
		MEDIUM	CFM		707	930	999	1187
		LOW	CFM		613	749	751	1113
	SOUND PRESSURE LEVEL (H/M/L)		dBA		46 / 44 / 40	48 / 44 / 41	49 / 45 / 43	54 / 52 / 50
	UNIT DIMENSION		HEIGHT X WIDTH X DEPTH	mm	235 x 1553 x 680	235 x 1903 x 680	235 x 1903 x 680	235 x 1903 x 680
	PACKING DIMENSION		HEIGHT X WIDTH X DEPTH	mm	293 x 1628 x 749	301 x 1986 x 757	301 x 1986 x 757	301 x 1986 x 757
	UNIT WEIGHT		kg		41	51	52	55
	CONDENSATE DRAIN SIZE		mm				19.05	
	FAN	TYPE			SIROCCO			
		DRIVE			DIRECT			
	FAN MOTOR	TYPE			PERMANENT SPLIT CAPACITOR			
		INDEX OF PROTECTION (IP)			20	20	20	20
		INSULATION GRADE			B	B	B	B
		RATED INPUT POWER		W	128	187	202	237
		RATED RUNNING CURRENT		A	0.55	0.84	0.89	1.05
		MOTOR OUTPUT		W	85	110	110	140
	POLES			4	4	4	4	
	COIL	TUBE	MATERIAL		COPPER			
DIAMETER			mm	7.00		9.52		
FIN		MATERIAL		ALUMINIUM				
	FACE AREA	m ²	0.218	0.277	0.335	0.335		
ROW			3	3	3	4		
AIR QUALITY	FILTER	TYPE		SARANET				
		QUANTITY	pc	4	5	5	5	
CASING		COLOUR		WHITE				
AIR FLOW		CFM		1712	3000	3150	3400	
SOUND PRESSURE LEVEL		dBA		56	58	60	63	
UNIT DIMENSION		HEIGHT X WIDTH X DEPTH	mm	753 x 855 x 328	852 x 1030 x 400	852 x 1030 x 400	852 x 1030 x 400	
PACKING DIMENSION		HEIGHT X WIDTH X DEPTH	mm	793 x 990 x 415	1010 x 1180 x 514	1010 x 1180 x 514	1010 x 1180 x 514	
UNIT WEIGHT		kg		57	71	95	98	
PIPE CONNECTION	TYPE			FLARE VALVE				
	SIZE	LIQUID GAS	mm	9.52	9.52	9.52	9.52	
			mm	15.88	15.88	15.88	15.88	
FAN	TYPE			PROPELLER				
	DRIVE			DIRECT				
FAN MOTOR	TYPE			PERMANENT SPLIT CAPACITOR				
	INDEX OF PROTECTION (IP)			24	54	44	44	
	INSULATION GRADE			F	F	F	F	
	RATED INPUT POWER		W	123	223	276	406	
	RATED RUNNING CURRENT		A	0.54	0.98	1.34	1.76	
	MOTOR OUTPUT		W	70	145	145	245	
POLES			6	8	8	6		
COMPRESSOR	TYPE			ROTARY	TWIN ROTARY	SCROLL		
	OIL TYPE			FV50S	FV50S	MOBILE EAL ARCTIC 22C		
	OIL AMOUNT		cm ³	700	1300	1951	1656	
	RATED INPUT POWER (COOLING)		W	2699	3390	3622	4257	
	RATED RUNNING CURRENT (COOLING)		A	12.61	15.08	5.84	7.58	
LOCKED ROTOR AMP.		A	64.0	68.0	51.5	74.0		
COIL	TUBE	MATERIAL		COPPER				
		DIAMETER	mm	7.00				
	FIN	MATERIAL		ALUMINIUM				
FACE AREA		m ²	0.61	0.87	0.85	0.85		
ROW			2	1	2	2		
CASING		COLOUR		IVORY WHITE				

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING
INDOOR: 27°C DB / 19°C WB
OUTDOOR: 35°C DB / 24°C WB

Engineering Data - R410A MODEL

MODEL	INDOOR UNIT		A5CM62C	
	OUTDOOR UNIT		A5LC61D	
NOMINAL COOLING CAPACITY		Btu/h	55000	
		W	16110	
NOMINAL TOTAL INPUT POWER (COOLING)		W	6414	
NOMINAL RUNNING CURRENT (COOLING)		A	9.60	
EER		W/W	2.51	
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP TUBE	
REFRIGERANT CHARGE		kg	2.90	
POWER SOURCE		V/Ph/Hz	380-415 / 3 / 50	
REFRIGERANT TYPE			R410A	
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION		MANUAL (HORIZONTAL & VERTICAL)
				WIRELESS REMOTE CONTROL
	AIR FLOW	HIGH	CFM	1550
		MEDIUM	CFM	1320
		LOW	CFM	1000
	SOUND PRESSURE LEVEL (H/M/L)		dBA	56 / 53 / 46
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	285 x 1903 x 680
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	373 x 2011 x 793
	UNIT WEIGHT		kg	70
	CONDENSATE DRAIN SIZE		mm	19.05
	FAN	TYPE DRIVE		SIROCCO DIRECT
				PERMANENT SPLIT CAPACITOR
	FAN MOTOR	TYPE		PERMANENT SPLIT CAPACITOR
		INDEX OF PROTECTION (IP)		20
		INSULATION GRADE		B
		RATED INPUT POWER	W	320
		RATED RUNNING CURRENT	A	1.34
		MOTOR OUTPUT	W	160
	POLES			4
	COIL	TUBE	MATERIAL	COPPER
DIAMETER			mm	9.52
FIN		MATERIAL	ALUMINIUM	
		FACE AREA	m ²	0.335
ROW			4	
AIR QUALITY	FILTER	TYPE	SARANET	
QUANTITY		pc	5	
CASING		COLOUR	WHITE	
AIR FLOW		CFM	3800	
SOUND PRESSURE LEVEL		dBA	65	
UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	852 x 1030 x 400	
PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	1010 x 1180 x 514	
UNIT WEIGHT		kg	105	
PIPE CONNECTION	TYPE		FLARE VALVE	
	SIZE	LIQUID	mm	9.52
		GAS	mm	19.05
FAN	TYPE DRIVE		PROPELLER DIRECT	
			PERMANENT SPLIT CAPACITOR	
FAN MOTOR	TYPE		PERMANENT SPLIT CAPACITOR	
	INDEX OF PROTECTION (IP)		54	
	INSULATION GRADE		F	
	RATED INPUT POWER	W	496	
	RATED RUNNING CURRENT	A	2.18	
	MOTOR OUTPUT	W	400	
POLES			6	
COMPRESSOR	TYPE		SCROLL	
	OIL TYPE		MOBILE EAL ARCTIC 22C	
	OIL AMOUNT	cm ³	1774	
	RATED INPUT POWER (COOLING)	W	5598	
	RATED RUNNING CURRENT (COOLING)	A	8.43	
	LOCKED ROTOR AMP.	A	74.0	
COIL	TUBE	MATERIAL	COPPER	
		DIAMETER	mm	7.00
	FIN	MATERIAL	ALUMINIUM	
		FACE AREA	m ²	0.82
ROW			3	
CASING		COLOUR	IVORY WHITE	

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING
INDOOR: 27°C DB / 19°C WB
OUTDOOR: 35°C DB / 24°C WB

Safety Device

MODEL	INDOOR		A5CM15C	A5CM20C	A5CM25C	A5CM30C	
	OUTDOOR		A5LC15F	A5LC20C	A5LC25C	A5LC28C	A5LC30C
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A			
		OPEN	kPa / psi	N/A			
		CLOSE	kPa / psi	N/A			
	LOW PRESSURE SWITCH	TYPE		N/A			
		OPEN	kPa / psi	N/A			
		CLOSE	kPa / psi	N/A			
	PHASE SEQUENCER			N/A			
DISCHARGE THERMOSTAT		°C / °F	N/A				

MODEL	INDOOR		A5CM35C	A5CM40C	A5CM50C	A5CM62C
	OUTDOOR		A5LC35D	A5LC40D	A5LC50D	A5LC61D
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC		
		OPEN	kPa / psi	4140 / 600		
		CLOSE	kPa / psi	3310 / 480		
	LOW PRESSURE SWITCH	TYPE		NC		
		OPEN	kPa / psi	48 / 7		
		CLOSE	kPa / psi	152 / 22		
	PHASE SEQUENCER			N/A	YES	
DISCHARGE THERMOSTAT		°C / °F	N/A	125°C / 257°F		

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Performance Data

Calculation Steps

Interpolation method can be used to get the total cooling capacity, **TC** and sensible cooling capacity, **SC** and power input, **PI** at those temperatures which are not stated out in the table. Extrapolation method is not allowed to be used.

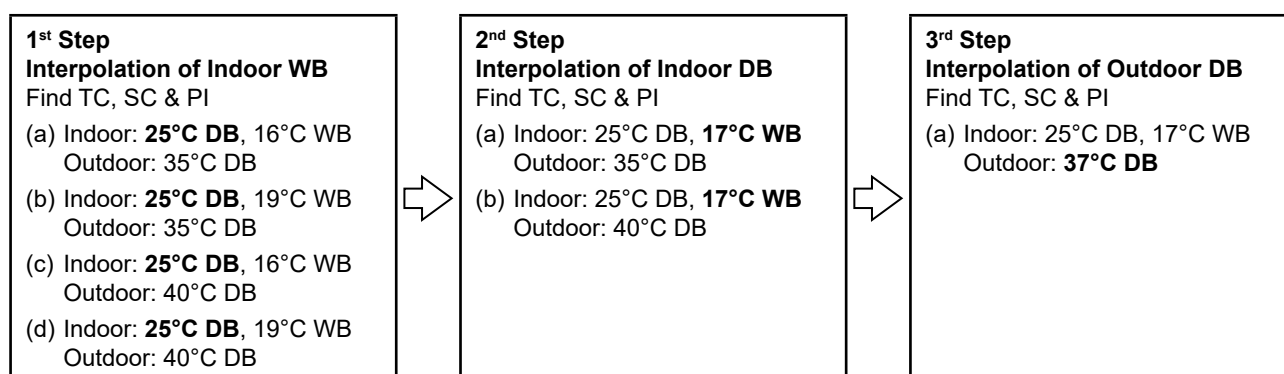
Example:

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
195	16°C	21°C	2.02	1.54	0.49	1.95	1.50	0.53	1.87	1.46	0.58	1.80	1.42	0.63	1.65	1.32	0.68	1.52	1.24	0.75
		24°C	2.02	1.84	0.49	1.95	1.80	0.53	1.88	1.76	0.58	1.80	1.71	0.63	1.66	1.60	0.68	1.53	1.51	0.75
		27°C	2.04	2.04	0.49	1.97	1.97	0.54	1.90	1.90	0.58	1.83	1.83	0.63	1.69	1.69	0.68	1.57	1.57	0.75
		30°C	2.10	2.10	0.50	2.04	2.04	0.54	1.98	1.98	0.58	1.91	1.91	0.63	1.77	1.77	0.69	1.66	1.66	0.76
	19°C	24°C	2.23	1.44	0.50	2.15	1.40	0.54	2.07	1.36	0.59	1.99	1.32	0.64	1.83	1.23	0.69	1.69	1.16	0.76
		27°C	2.23	1.64	0.50	2.15	1.61	0.54	2.07	1.57	0.59	1.99	1.53	0.64	1.83	1.43	0.69	1.69	1.36	0.76
		30°C	2.23	2.03	0.50	2.15	1.99	0.54	2.08	1.94	0.59	2.00	1.89	0.64	1.84	1.77	0.69	1.71	1.68	0.76
		33°C	2.26	2.26	0.50	2.18	2.18	0.54	2.11	2.11	0.59	2.04	2.04	0.64	1.89	1.89	0.70	1.77	1.77	0.77
	22°C	27°C	2.45	1.41	0.51	2.36	1.37	0.55	2.28	1.34	0.60	2.19	1.30	0.65	2.01	1.21	0.71	1.86	1.14	0.78
		30°C	2.45	1.71	0.51	2.36	1.68	0.55	2.28	1.64	0.60	2.19	1.60	0.65	2.01	1.50	0.71	1.86	1.42	0.78
		33°C	2.45	2.00	0.51	2.37	1.96	0.55	2.28	1.92	0.60	2.19	1.88	0.65	2.02	1.77	0.71	1.87	1.68	0.78
		36°C	2.46	2.27	0.51	2.38	2.22	0.55	2.29	2.18	0.60	2.21	2.13	0.65	2.04	2.00	0.71	1.90	1.89	0.78

Solution:

Based on the Performance Table,

- Refer to the Indoor DB column,
 - **25°C** is located between 24°C & 27°C for 16°C WB.
 - **25°C** is located between 24°C & 27°C for 19°C WB.
 - Thus, Interpolation needs to be applied.
- Refer to the Indoor WB column,
 - **17°C** is located between 16°C & 19°C for 25°C DB.
 - Thus, Interpolation needs to be applied.
- Refer to the Outdoor DB column,
 - **37°C** is located between 35°C & 40°C.
 - Thus, Interpolation needs to be applied.



Details of Calculation:

1st Step:

To obtain the TC, SC & PI for

(a) Indoor Condition: 25°C DB, 16°C WB
Outdoor Condition: 35°C DB

EWB	EDB	Outdoor temperature			
		35°C			
		TC	SC	PI	
		⋮	⋮	⋮	
16	24		1.80	1.71	0.63
	25	-----	x_1	y_1	z_1
	27		1.83	1.83	0.63

By Interpolation Method

$$\Rightarrow \frac{25^\circ\text{C} - 24^\circ\text{C}}{27^\circ\text{C} - 24^\circ\text{C}} = \frac{x_1 - 1.80\text{kW}}{1.83\text{kW} - 1.80\text{kW}}$$

$$\Rightarrow x_1 = 1.81\text{kW}$$

Similarly,

$$y_1 = 1.75\text{kW}$$

$$z_1 = 0.63\text{kW}$$

(b) Indoor Condition: 25°C DB, 19°C WB
Outdoor Condition: 35°C DB

EWB	EDB	Outdoor temperature			
		35°C			
		TC	SC	PI	
		⋮	⋮	⋮	
19	24		1.99	1.32	0.64
	25	-----	x_2	y_2	z_2
	27		1.99	1.53	0.64

By Interpolation Method

$$\Rightarrow \frac{25^\circ\text{C} - 24^\circ\text{C}}{27^\circ\text{C} - 24^\circ\text{C}} = \frac{x_2 - 1.99\text{kW}}{1.99\text{kW} - 1.99\text{kW}}$$

$$\Rightarrow x_2 = 1.99\text{kW}$$

Similarly,

$$y_2 = 1.39\text{kW}$$

$$z_2 = 0.64\text{kW}$$

Repeat the same process for (c) & (d) in 1st Step

(d) $x_4 = 1.83 \text{ W}; y_4 = 1.30 \text{ kW}; z_4 = 0.69 \text{ kW}$

(c) $x_3 = 1.69 \text{ kW}; y_3 = 1.63 \text{ kW}; z_3 = 0.68 \text{ kW}$

2nd Step:

To obtain the TC, SC & PI for

(a) Indoor Condition: 25°C DB, 17°C WB
Outdoor Condition: 35°C DB

EWB	EDB	Outdoor temperature			
		35°C			
		TC	SC	PI	
		⋮	⋮	⋮	
16	25		1.81	1.75	0.63
17		-----	x_5	y_5	z_5
19			1.99	1.39	0.64

By Interpolation Method

$$\Rightarrow \frac{17^\circ\text{C} - 16^\circ\text{C}}{19^\circ\text{C} - 16^\circ\text{C}} = \frac{x_5 - 1.81\text{kW}}{1.99\text{kW} - 1.81\text{kW}}$$

$$\Rightarrow x_5 = 1.87\text{kW}$$

Similarly,

$$y_5 = 1.63\text{kW}$$

$$z_5 = 0.63\text{kW}$$

Repeat the same process for (b) in 2nd Step

(c) $x_6 = 1.74 \text{ kW}; y_6 = 1.52 \text{ kW}; z_6 = 0.68 \text{ kW}$

3rd Step:

To obtain the TC, SC & PI for

(a) Indoor Condition: 25°C DB, 17°C WB

Outdoor Condition: 37°C DB

EWB	EDB	Outdoor temperature									
		35°C			37°C			40°C			
		TC	SC	PI	TC	SC	PI	TC	SC	PI	
						∣	∣	∣			
25	17	-----	1.87	1.63	0.63	x	y	z	1.74	1.52	0.68

Performance Tables

R410A Cooling Only

Model: A5CM15C - A5LC15F
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
382	16°C	21°C	3.45	2.28	0.96	3.33	2.22	1.04	3.20	2.16	1.13	3.08	2.10	1.23	2.82	1.95	1.33	2.61	1.84	1.47
		24°C	3.45	2.73	0.97	3.33	2.67	1.04	3.21	2.60	1.13	3.08	2.54	1.23	2.83	2.37	1.33	2.62	2.24	1.47
		27°C	3.48	3.09	0.97	3.37	3.02	1.05	3.25	2.95	1.13	3.13	2.88	1.23	2.88	2.68	1.33	2.68	2.51	1.47
		30°C	3.59	3.59	0.97	3.49	3.49	1.05	3.38	3.38	1.14	3.27	3.27	1.24	3.03	3.03	1.35	2.84	2.84	1.49
	19°C	24°C	3.81	2.13	0.98	3.67	2.07	1.06	3.54	2.02	1.15	3.40	1.96	1.25	3.12	1.83	1.35	2.89	1.72	1.49
		27°C	3.81	2.43	0.98	3.67	2.38	1.06	3.54	2.32	1.15	3.40	2.27	1.25	3.13	2.12	1.35	2.89	2.01	1.49
		30°C	3.81	3.00	0.98	3.68	2.94	1.06	3.55	2.87	1.15	3.42	2.80	1.25	3.15	2.62	1.35	2.92	2.48	1.49
		33°C	3.86	3.86	0.98	3.73	3.73	1.06	3.61	3.61	1.15	3.49	3.49	1.25	3.23	3.23	1.36	3.02	3.02	1.50
	22°C	27°C	4.19	2.08	1.00	4.04	2.03	1.08	3.89	1.98	1.17	3.74	1.93	1.27	3.44	1.79	1.38	3.19	1.69	1.52
		30°C	4.19	2.54	1.00	4.04	2.48	1.08	3.90	2.43	1.17	3.74	2.37	1.27	3.44	2.22	1.38	3.19	2.10	1.52
		33°C	4.19	2.96	1.00	4.05	2.91	1.08	3.90	2.85	1.17	3.75	2.79	1.27	3.45	2.62	1.38	3.19	2.49	1.52
		36°C	4.20	3.36	1.00	4.07	3.29	1.08	3.92	3.22	1.17	3.78	3.15	1.27	3.49	2.96	1.38	3.24	2.80	1.52
484	16°C	21°C	3.59	2.38	0.97	3.46	2.32	1.05	3.33	2.25	1.14	3.19	2.19	1.24	2.93	2.04	1.34	2.70	1.92	1.48
		24°C	3.60	2.88	0.97	3.47	2.82	1.05	3.34	2.75	1.14	3.21	2.68	1.24	2.95	2.50	1.34	2.72	2.36	1.48
		27°C	3.64	3.28	0.98	3.52	3.20	1.06	3.40	3.12	1.14	3.28	3.03	1.24	3.03	2.81	1.35	2.82	2.63	1.49
		30°C	3.80	3.80	0.98	3.69	3.69	1.06	3.57	3.57	1.15	3.46	3.46	1.25	3.20	3.20	1.36	3.00	3.00	1.50
	19°C	24°C	3.96	2.25	0.99	3.81	2.19	1.07	3.67	2.13	1.16	3.52	2.08	1.26	3.24	1.93	1.36	2.99	1.82	1.50
		27°C	3.96	2.59	0.99	3.82	2.53	1.07	3.68	2.48	1.16	3.53	2.42	1.26	3.24	2.26	1.37	3.00	2.14	1.50
		30°C	3.98	3.19	0.99	3.84	3.13	1.07	3.71	3.06	1.16	3.56	2.98	1.26	3.28	2.79	1.37	3.04	2.63	1.51
		33°C	4.05	4.05	0.99	3.92	3.92	1.08	3.80	3.80	1.17	3.67	3.67	1.27	3.40	3.40	1.38	3.18	3.18	1.52
	22°C	27°C	4.35	2.20	1.01	4.19	2.15	1.09	4.04	2.10	1.18	3.88	2.04	1.28	3.56	1.90	1.39	3.30	1.79	1.53
		30°C	4.35	2.70	1.01	4.20	2.65	1.09	4.04	2.59	1.18	3.88	2.53	1.28	3.57	2.37	1.39	3.30	2.25	1.53
		33°C	4.36	3.17	1.01	4.21	3.11	1.09	4.05	3.04	1.18	3.89	2.98	1.29	3.58	2.79	1.39	3.32	2.65	1.54
		36°C	4.39	3.58	1.01	4.24	3.51	1.10	4.10	3.44	1.19	3.95	3.36	1.29	3.64	3.14	1.40	3.40	2.96	1.54
550	16°C	21°C	3.72	2.48	0.98	3.59	2.42	1.06	3.45	2.35	1.15	3.31	2.29	1.25	3.03	2.13	1.35	2.80	2.01	1.49
		24°C	3.74	3.01	0.98	3.61	2.94	1.06	3.47	2.87	1.15	3.33	2.79	1.25	3.06	2.61	1.35	2.83	2.46	1.49
		27°C	3.80	3.45	0.99	3.68	3.36	1.07	3.55	3.27	1.16	3.43	3.17	1.25	3.17	2.94	1.36	2.95	2.74	1.50
		30°C	3.99	3.99	0.99	3.88	3.88	1.08	3.76	3.76	1.17	3.63	3.63	1.27	3.36	3.36	1.38	3.14	3.14	1.52
	19°C	24°C	4.10	2.38	1.00	3.95	2.32	1.08	3.80	2.26	1.17	3.65	2.20	1.27	3.35	2.05	1.38	3.09	1.93	1.52
		27°C	4.11	2.75	1.00	3.96	2.69	1.08	3.81	2.63	1.17	3.66	2.56	1.27	3.36	2.40	1.38	3.11	2.27	1.52
		30°C	4.14	3.39	1.00	4.00	3.31	1.08	3.85	3.24	1.17	3.71	3.16	1.27	3.41	2.95	1.38	3.17	2.78	1.52
		33°C	4.23	4.23	1.00	4.11	4.11	1.09	3.98	3.98	1.18	3.85	3.85	1.28	3.57	3.57	1.39	3.34	3.34	1.54
	22°C	27°C	4.50	2.33	1.02	4.34	2.28	1.10	4.17	2.22	1.19	4.01	2.16	1.29	3.68	2.02	1.40	3.40	1.90	1.55
		30°C	4.51	2.87	1.02	4.35	2.81	1.10	4.18	2.75	1.19	4.01	2.69	1.29	3.69	2.52	1.40	3.41	2.39	1.55
		33°C	4.52	3.36	1.02	4.37	3.30	1.10	4.21	3.23	1.20	4.04	3.16	1.30	3.72	2.96	1.41	3.44	2.81	1.55
		36°C	4.56	3.80	1.02	4.42	3.73	1.11	4.27	3.65	1.20	4.11	3.56	1.30	3.80	3.32	1.41	3.55	3.12	1.56

Remark:

AFR: Air flow rate (CFM)
 EWB: Entering Wet Bulb Temp. (°C)
 EDB: Entering Dry Bulb Temp. (°C)
 TC: Total Cooling Capacity (kW)
 SC: Sensible Cooling Capacity (kW)
 PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: A5CM20C - A5LC20C

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																							
			19°C				25°C				30°C				35°C				40°C				46°C			
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI			
466	16°C	21°C	4.97	3.61	1.34	4.79	3.52	1.45	4.62	3.42	1.57	4.43	3.32	1.70	4.07	3.09	1.84	3.76	2.91	2.03						
		24°C	4.98	4.32	1.34	4.80	4.22	1.45	4.62	4.13	1.57	4.44	4.02	1.70	4.08	3.76	1.84	3.77	3.54	2.03						
		27°C	5.02	4.90	1.34	4.85	4.79	1.45	4.68	4.68	1.57	4.50	4.50	1.70	4.15	4.15	1.85	3.86	3.86	2.04						
		30°C	5.17	5.17	1.35	5.02	5.02	1.46	4.87	4.87	1.58	4.71	4.71	1.72	4.37	4.37	1.86	4.09	4.09	2.06						
	19°C	24°C	5.48	3.37	1.36	5.29	3.28	1.47	5.09	3.20	1.59	4.89	3.11	1.73	4.50	2.89	1.87	4.16	2.73	2.07						
		27°C	5.48	3.86	1.36	5.29	3.77	1.47	5.10	3.68	1.59	4.90	3.59	1.73	4.50	3.36	1.88	4.16	3.18	2.07						
		30°C	5.49	4.76	1.36	5.30	4.66	1.47	5.12	4.55	1.59	4.92	4.44	1.73	4.53	4.16	1.88	4.20	3.93	2.07						
		33°C	5.56	5.56	1.36	5.38	5.38	1.48	5.20	5.20	1.60	5.03	5.03	1.74	4.65	4.65	1.89	4.35	4.35	2.08						
	22°C	27°C	6.03	3.30	1.38	5.82	3.22	1.50	5.61	3.14	1.62	5.39	3.05	1.76	4.96	2.84	1.91	4.59	2.68	2.11						
		30°C	6.03	4.02	1.38	5.82	3.93	1.50	5.61	3.84	1.62	5.39	3.75	1.76	4.96	3.51	1.91	4.59	3.33	2.11						
		33°C	6.04	4.69	1.38	5.83	4.61	1.50	5.61	4.51	1.62	5.39	4.42	1.76	4.96	4.15	1.91	4.60	3.94	2.11						
		36°C	6.05	5.32	1.38	5.85	5.22	1.50	5.65	5.11	1.63	5.45	5.00	1.77	5.02	4.68	1.92	4.67	4.44	2.11						
586	16°C	21°C	5.17	3.77	1.35	4.98	3.67	1.46	4.80	3.57	1.58	4.60	3.47	1.71	4.22	3.23	1.86	3.89	3.04	2.05						
		24°C	5.19	4.57	1.35	5.00	4.46	1.46	4.81	4.36	1.58	4.62	4.25	1.72	4.24	3.96	1.86	3.92	3.74	2.05						
		27°C	5.25	5.19	1.35	5.07	5.07	1.46	4.90	4.90	1.59	4.72	4.72	1.72	4.36	4.36	1.87	4.06	4.06	2.06						
		30°C	5.47	5.47	1.36	5.31	5.31	1.48	5.15	5.15	1.60	4.98	4.98	1.74	4.61	4.61	1.89	4.31	4.31	2.08						
	19°C	24°C	5.70	3.56	1.37	5.49	3.47	1.48	5.29	3.38	1.61	5.07	3.29	1.74	4.66	3.07	1.89	4.31	2.89	2.08						
		27°C	5.71	4.10	1.37	5.50	4.01	1.48	5.30	3.92	1.61	5.08	3.83	1.74	4.67	3.58	1.89	4.32	3.39	2.09						
		30°C	5.73	5.06	1.37	5.53	4.95	1.49	5.34	4.84	1.61	5.13	4.72	1.75	4.73	4.42	1.90	4.38	4.17	2.09						
		33°C	5.83	5.83	1.38	5.65	5.65	1.49	5.47	5.47	1.62	5.29	5.29	1.76	4.90	4.90	1.91	4.58	4.58	2.11						
	22°C	27°C	6.26	3.49	1.40	6.04	3.41	1.51	5.81	3.32	1.64	5.58	3.23	1.78	5.13	3.01	1.93	4.75	2.84	2.12						
		30°C	6.27	4.28	1.40	6.05	4.19	1.51	5.82	4.10	1.64	5.59	4.00	1.78	5.14	3.75	1.93	4.75	3.56	2.13						
		33°C	6.28	5.02	1.40	6.06	4.92	1.51	5.84	4.82	1.64	5.61	4.72	1.78	5.16	4.42	1.93	4.78	4.20	2.13						
		36°C	6.32	5.67	1.40	6.11	5.56	1.52	5.90	5.45	1.65	5.68	5.32	1.79	5.24	4.98	1.94	4.89	4.70	2.14						
608	16°C	21°C	5.36	3.93	1.36	5.16	3.83	1.47	4.97	3.73	1.59	4.76	3.62	1.73	4.37	3.37	1.87	4.03	3.18	2.06						
		24°C	5.39	4.77	1.36	5.19	4.66	1.47	5.00	4.55	1.60	4.80	4.43	1.73	4.41	4.13	1.88	4.07	3.89	2.07						
		27°C	5.48	5.47	1.37	5.30	5.30	1.48	5.12	5.12	1.60	4.93	4.93	1.74	4.56	4.56	1.89	4.25	4.25	2.08						
		30°C	5.75	5.75	1.38	5.58	5.58	1.49	5.41	5.41	1.62	5.23	5.23	1.76	4.84	4.84	1.91	4.52	4.52	2.11						
	19°C	24°C	5.90	3.77	1.38	5.69	3.67	1.50	5.47	3.58	1.62	5.25	3.48	1.76	4.82	3.25	1.91	4.45	3.06	2.10						
		27°C	5.92	4.36	1.38	5.71	4.26	1.50	5.49	4.16	1.62	5.27	4.06	1.76	4.84	3.80	1.91	4.47	3.59	2.10						
		30°C	5.97	5.36	1.39	5.76	5.25	1.50	5.55	5.13	1.63	5.34	5.00	1.76	4.91	4.67	1.91	4.56	4.40	2.11						
		33°C	6.10	6.10	1.39	5.92	5.92	1.51	5.74	5.74	1.64	5.55	5.55	1.78	5.14	5.14	1.93	4.81	4.81	2.13						
	22°C	27°C	6.48	3.69	1.41	6.25	3.61	1.53	6.01	3.51	1.65	5.77	3.42	1.79	5.30	3.19	1.94	4.90	3.02	2.14						
		30°C	6.49	4.54	1.41	6.26	4.46	1.53	6.02	4.36	1.65	5.78	4.26	1.79	5.31	3.99	1.95	4.91	3.78	2.14						
		33°C	6.51	5.33	1.41	6.29	5.23	1.53	6.05	5.12	1.66	5.82	5.01	1.80	5.35	4.70	1.95	4.96	4.46	2.15						
		36°C	6.57	6.01	1.41	6.36	5.90	1.53	6.14	5.77	1.66	5.92	5.63	1.80	5.47	5.25	1.96	5.10	4.94	2.16						

Remark:

AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: A5CM25C - A5LC25C

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
466	16°C	21°C	5.80	3.88	1.53	5.59	3.78	1.66	5.39	3.68	1.80	5.17	3.58	1.95	4.75	3.33	2.11	4.38	3.13	2.33
		24°C	5.81	4.65	1.54	5.60	4.54	1.66	5.39	4.44	1.80	5.18	4.33	1.95	4.76	4.04	2.12	4.40	3.81	2.33
		27°C	5.85	5.27	1.54	5.66	5.15	1.66	5.46	5.03	1.80	5.25	4.90	1.95	4.85	4.56	2.12	4.51	4.29	2.34
		30°C	6.03	6.03	1.54	5.86	5.86	1.67	5.68	5.68	1.81	5.50	5.50	1.97	5.10	5.10	2.14	4.77	4.77	2.36
	19°C	24°C	6.40	3.63	1.56	6.17	3.53	1.69	5.95	3.44	1.83	5.71	3.34	1.98	5.25	3.11	2.15	4.85	2.93	2.37
		27°C	6.40	4.15	1.56	6.18	4.06	1.69	5.95	3.96	1.83	5.71	3.87	1.98	5.25	3.62	2.15	4.86	3.43	2.37
		30°C	6.41	5.12	1.56	6.19	5.01	1.69	5.97	4.90	1.83	5.74	4.78	1.99	5.29	4.47	2.15	4.91	4.23	2.38
		33°C	6.49	6.49	1.56	6.28	6.28	1.69	6.07	6.07	1.84	5.86	5.86	1.99	5.43	5.43	2.17	5.07	5.07	2.39
	22°C	27°C	7.04	3.55	1.59	6.79	3.46	1.72	6.55	3.38	1.86	6.29	3.28	2.02	5.78	3.06	2.19	5.35	2.89	2.42
		30°C	7.04	4.33	1.59	6.80	4.23	1.72	6.55	4.14	1.86	6.29	4.04	2.02	5.79	3.78	2.19	5.36	3.59	2.42
		33°C	7.04	5.05	1.59	6.80	4.96	1.72	6.55	4.86	1.86	6.30	4.76	2.02	5.79	4.47	2.19	5.37	4.24	2.42
		36°C	7.07	5.73	1.59	6.83	5.61	1.72	6.60	5.50	1.87	6.36	5.38	2.03	5.86	5.04	2.20	5.45	4.78	2.42
586	16°C	21°C	6.03	4.05	1.55	5.82	3.95	1.67	5.60	3.84	1.81	5.37	3.73	1.97	4.93	3.48	2.13	4.54	3.27	2.35
		24°C	6.05	4.92	1.55	5.83	4.80	1.68	5.62	4.69	1.82	5.39	4.57	1.97	4.95	4.26	2.14	4.58	4.02	2.35
		27°C	6.13	5.59	1.55	5.92	5.46	1.68	5.72	5.32	1.82	5.51	5.16	1.98	5.09	4.79	2.14	4.74	4.48	2.37
		30°C	6.38	6.38	1.56	6.20	6.20	1.69	6.01	6.01	1.84	5.81	5.81	1.99	5.39	5.39	2.17	5.03	5.03	2.39
	19°C	24°C	6.65	3.83	1.57	6.41	3.74	1.70	6.17	3.64	1.85	5.92	3.54	2.00	5.44	3.30	2.17	5.02	3.11	2.39
		27°C	6.66	4.41	1.57	6.42	4.32	1.70	6.18	4.22	1.85	5.93	4.12	2.00	5.45	3.85	2.17	5.04	3.65	2.39
		30°C	6.69	5.45	1.58	6.46	5.33	1.71	6.23	5.21	1.85	5.99	5.08	2.01	5.51	4.75	2.18	5.12	4.49	2.40
		33°C	6.80	6.80	1.58	6.60	6.60	1.71	6.39	6.39	1.86	6.17	6.17	2.02	5.72	5.72	2.19	5.35	5.35	2.42
	22°C	27°C	7.30	3.75	1.60	7.05	3.66	1.74	6.79	3.57	1.88	6.52	3.48	2.04	5.99	3.24	2.21	5.54	3.06	2.44
		30°C	7.31	4.61	1.60	7.06	4.51	1.74	6.79	4.41	1.88	6.52	4.31	2.04	6.00	4.03	2.21	5.55	3.83	2.44
		33°C	7.33	5.40	1.60	7.07	5.29	1.74	6.81	5.19	1.88	6.54	5.07	2.04	6.02	4.76	2.22	5.58	4.52	2.44
		36°C	7.37	6.10	1.61	7.13	5.98	1.74	6.88	5.86	1.89	6.63	5.72	2.05	6.12	5.36	2.22	5.71	5.05	2.45
608	16°C	21°C	6.26	4.23	1.56	6.03	4.12	1.69	5.80	4.01	1.83	5.56	3.90	1.98	5.10	3.63	2.15	4.70	3.42	2.37
		24°C	6.29	5.14	1.56	6.06	5.01	1.69	5.83	4.89	1.83	5.60	4.76	1.99	5.14	4.44	2.15	4.75	4.19	2.37
		27°C	6.39	5.89	1.57	6.18	5.73	1.70	5.97	5.57	1.84	5.76	5.40	2.00	5.32	5.00	2.17	4.96	4.67	2.39
		30°C	6.71	6.71	1.58	6.51	6.51	1.71	6.31	6.31	1.86	6.11	6.11	2.02	5.65	5.65	2.19	5.28	5.28	2.42
	19°C	24°C	6.89	4.05	1.59	6.64	3.95	1.72	6.39	3.85	1.86	6.13	3.75	2.02	5.62	3.49	2.19	5.19	3.30	2.41
		27°C	6.91	4.69	1.59	6.66	4.58	1.72	6.41	4.48	1.86	6.15	4.37	2.02	5.65	4.08	2.19	5.22	3.86	2.41
		30°C	6.96	5.77	1.59	6.72	5.65	1.72	6.48	5.52	1.87	6.23	5.38	2.03	5.73	5.02	2.20	5.32	4.74	2.42
		33°C	7.11	7.11	1.60	6.91	6.91	1.73	6.69	6.69	1.88	6.47	6.47	2.04	6.00	6.00	2.22	5.61	5.61	2.45
	22°C	27°C	7.56	3.97	1.62	7.29	3.88	1.75	7.01	3.78	1.90	6.73	3.68	2.06	6.18	3.44	2.23	5.71	3.24	2.46
		30°C	7.57	4.89	1.62	7.30	4.80	1.75	7.03	4.69	1.90	6.75	4.59	2.06	6.20	4.29	2.23	5.73	4.07	2.46
		33°C	7.60	5.73	1.62	7.34	5.63	1.75	7.07	5.51	1.90	6.79	5.39	2.06	6.25	5.05	2.24	5.79	4.79	2.46
		36°C	7.67	6.47	1.62	7.43	6.35	1.76	7.17	6.21	1.91	6.91	6.06	2.07	6.39	5.65	2.25	5.96	5.32	2.48

Remark:

AFR: Air flow rate (CFM)
 EWB: Entering Wet Bulb Temp. (°C)
 EDB: Entering Dry Bulb Temp. (°C)
 TC: Total Cooling Capacity (kW)
 SC: Sensible Cooling Capacity (kW)
 PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: A5CM30C - A5LC28C

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
613	16°C	21°C	7.46	5.07	2.09	7.20	4.94	2.26	6.93	4.80	2.45	6.65	4.67	2.66	6.11	4.34	2.88	5.64	4.08	3.18
		24°C	7.47	6.07	2.09	7.21	5.93	2.26	6.94	5.79	2.45	6.66	5.65	2.66	6.12	5.28	2.88	5.66	4.98	3.18
		27°C	7.53	6.88	2.10	7.28	6.72	2.27	7.02	6.57	2.46	6.76	6.40	2.66	6.24	5.95	2.89	5.80	5.59	3.19
		30°C	7.76	7.76	2.11	7.54	7.54	2.28	7.31	7.31	2.47	7.08	7.08	2.69	6.56	6.56	2.92	6.14	6.14	3.22
	19°C	24°C	8.23	4.73	2.13	7.94	4.61	2.30	7.65	4.49	2.49	7.35	4.36	2.70	6.75	4.06	2.93	6.24	3.83	3.23
		27°C	8.24	5.41	2.13	7.95	5.29	2.30	7.65	5.17	2.49	7.35	5.05	2.70	6.76	4.72	2.93	6.25	4.47	3.23
		30°C	8.25	6.68	2.13	7.96	6.54	2.30	7.68	6.39	2.50	7.39	6.24	2.71	6.80	5.84	2.94	6.31	5.52	3.24
		33°C	8.35	8.35	2.13	8.07	8.07	2.31	7.81	7.81	2.50	7.55	7.55	2.72	6.98	6.98	2.95	6.53	6.53	3.26
	22°C	27°C	9.05	4.63	2.16	8.74	4.52	2.34	8.42	4.41	2.54	8.09	4.29	2.76	7.44	3.99	2.99	6.89	3.76	3.29
		30°C	9.06	5.64	2.16	8.74	5.52	2.34	8.42	5.40	2.54	8.09	5.27	2.76	7.44	4.93	2.99	6.89	4.68	3.30
		33°C	9.06	6.59	2.16	8.75	6.47	2.35	8.43	6.34	2.54	8.10	6.21	2.76	7.45	5.83	2.99	6.91	5.54	3.30
		36°C	9.09	7.48	2.17	8.79	7.33	2.35	8.49	7.17	2.55	8.18	7.01	2.76	7.54	6.58	3.00	7.01	6.24	3.31
707	16°C	21°C	7.76	5.29	2.11	7.48	5.15	2.28	7.20	5.01	2.47	6.91	4.87	2.68	6.34	4.54	2.91	5.85	4.27	3.21
		24°C	7.79	6.42	2.11	7.51	6.27	2.28	7.23	6.12	2.47	6.93	5.96	2.68	6.37	5.56	2.91	5.89	5.25	3.21
		27°C	7.88	7.29	2.12	7.62	7.12	2.29	7.35	6.93	2.48	7.09	6.73	2.69	6.54	6.25	2.92	6.10	5.85	3.23
		30°C	8.21	8.21	2.13	7.97	7.97	2.31	7.73	7.73	2.50	7.48	7.48	2.72	6.93	6.93	2.95	6.48	6.48	3.26
	19°C	24°C	8.55	5.00	2.15	8.25	4.87	2.32	7.94	4.75	2.52	7.62	4.62	2.73	7.00	4.30	2.96	6.46	4.06	3.26
		27°C	8.57	5.76	2.15	8.26	5.63	2.32	7.95	5.50	2.52	7.63	5.37	2.73	7.01	5.02	2.96	6.48	4.76	3.26
		30°C	8.61	7.10	2.15	8.31	6.95	2.33	8.01	6.80	2.52	7.71	6.63	2.74	7.09	6.20	2.97	6.58	5.86	3.27
		33°C	8.75	8.75	2.16	8.49	8.49	2.34	8.21	8.21	2.53	7.94	7.94	2.75	7.36	7.36	2.99	6.88	6.88	3.30
	22°C	27°C	9.40	4.90	2.19	9.07	4.78	2.37	8.73	4.66	2.57	8.38	4.53	2.78	7.70	4.23	3.02	7.12	3.99	3.32
		30°C	9.41	6.01	2.19	9.08	5.88	2.37	8.74	5.75	2.57	8.39	5.62	2.78	7.71	5.26	3.02	7.13	4.99	3.33
		33°C	9.43	7.04	2.19	9.10	6.91	2.37	8.76	6.76	2.57	8.42	6.62	2.79	7.75	6.21	3.02	7.18	5.90	3.33
		36°C	9.48	7.96	2.19	9.18	7.81	2.37	8.86	7.64	2.58	8.53	7.47	2.79	7.87	6.99	3.03	7.34	6.59	3.35
792	16°C	21°C	8.05	5.52	2.13	7.76	5.37	2.30	7.46	5.23	2.49	7.15	5.09	2.70	6.56	4.74	2.93	6.04	4.46	3.23
		24°C	8.09	6.70	2.13	7.80	6.54	2.30	7.51	6.38	2.50	7.20	6.21	2.71	6.61	5.80	2.94	6.11	5.47	3.24
		27°C	8.22	7.68	2.14	7.95	7.48	2.31	7.69	7.27	2.51	7.41	7.05	2.72	6.85	6.53	2.95	6.38	6.09	3.26
		30°C	8.63	8.63	2.16	8.38	8.38	2.34	8.12	8.12	2.53	7.86	7.86	2.75	7.27	7.27	2.99	6.79	6.79	3.30
	19°C	24°C	8.86	5.29	2.16	8.54	5.16	2.34	8.22	5.03	2.54	7.88	4.89	2.75	7.23	4.56	2.98	6.68	4.30	3.29
		27°C	8.89	6.12	2.16	8.57	5.98	2.34	8.25	5.84	2.54	7.91	5.70	2.75	7.27	5.33	2.99	6.71	5.04	3.29
		30°C	8.96	7.53	2.17	8.64	7.37	2.35	8.33	7.20	2.55	8.01	7.02	2.76	7.38	6.56	3.00	6.85	6.18	3.30
		33°C	9.15	9.15	2.18	8.89	8.89	2.36	8.61	8.61	2.56	8.33	8.33	2.78	7.72	7.72	3.02	7.22	7.22	3.34
	22°C	27°C	9.72	5.17	2.20	9.38	5.06	2.39	9.02	4.93	2.59	8.66	4.80	2.81	7.96	4.48	3.04	7.35	4.23	3.35
		30°C	9.74	6.38	2.21	9.40	6.26	2.39	9.04	6.12	2.59	8.68	5.98	2.81	7.97	5.60	3.05	7.38	5.31	3.35
		33°C	9.78	7.48	2.21	9.44	7.35	2.39	9.09	7.19	2.59	8.73	7.03	2.81	8.04	6.59	3.05	7.44	6.26	3.36
		36°C	9.86	8.44	2.21	9.55	8.29	2.40	9.22	8.11	2.60	8.89	7.91	2.82	8.22	7.37	3.07	7.66	6.94	3.38

Remark:

AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: A5CM30C - A5LC30C

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
613	16°C	21°C	8.01	5.44	2.24	7.72	5.30	2.42	7.44	5.15	2.63	7.14	5.01	2.85	6.55	4.66	3.09	6.05	4.38	3.40
		24°C	8.02	6.51	2.24	7.73	6.36	2.42	7.45	6.21	2.63	7.15	6.06	2.85	6.57	5.66	3.09	6.07	5.34	3.41
		27°C	8.08	7.38	2.25	7.81	7.22	2.43	7.54	7.05	2.63	7.25	6.86	2.85	6.69	6.39	3.10	6.23	6.00	3.42
		30°C	8.33	8.33	2.26	8.09	8.09	2.44	7.84	7.84	2.65	7.59	7.59	2.88	7.04	7.04	3.13	6.58	6.58	3.45
	19°C	24°C	8.83	5.08	2.28	8.52	4.95	2.46	8.21	4.82	2.67	7.88	4.68	2.90	7.24	4.36	3.14	6.70	4.11	3.46
		27°C	8.84	5.81	2.28	8.52	5.68	2.47	8.21	5.55	2.67	7.89	5.41	2.90	7.25	5.06	3.14	6.71	4.80	3.46
		30°C	8.85	7.17	2.28	8.54	7.02	2.47	8.24	6.86	2.67	7.93	6.69	2.90	7.30	6.26	3.15	6.77	5.92	3.47
		33°C	8.95	8.95	2.28	8.66	8.66	2.47	8.38	8.38	2.68	8.10	8.10	2.91	7.49	7.49	3.16	7.00	7.00	3.49
	22°C	27°C	9.71	4.97	2.32	9.38	4.85	2.51	9.04	4.73	2.72	8.68	4.60	2.95	7.98	4.28	3.20	7.39	4.04	3.53
		30°C	9.72	6.06	2.32	9.38	5.93	2.51	9.04	5.79	2.72	8.69	5.65	2.95	7.99	5.29	3.20	7.39	5.02	3.53
		33°C	9.72	7.07	2.32	9.39	6.94	2.51	9.04	6.80	2.72	8.69	6.66	2.95	8.00	6.25	3.21	7.41	5.94	3.53
		36°C	9.75	8.02	2.32	9.43	7.86	2.51	9.10	7.70	2.73	8.77	7.53	2.96	8.09	7.06	3.21	7.52	6.69	3.54
707	16°C	21°C	8.33	5.67	2.26	8.03	5.52	2.45	7.72	5.38	2.65	7.41	5.23	2.87	6.80	4.87	3.11	6.27	4.58	3.43
		24°C	8.35	6.88	2.26	8.05	6.72	2.45	7.75	6.56	2.65	7.44	6.40	2.87	6.83	5.97	3.12	6.32	5.63	3.44
		27°C	8.45	7.82	2.27	8.17	7.64	2.45	7.89	7.44	2.66	7.61	7.22	2.89	7.02	6.70	3.13	6.54	6.27	3.46
		30°C	8.81	8.81	2.28	8.55	8.55	2.47	8.29	8.29	2.68	8.02	8.02	2.91	7.43	7.43	3.16	6.95	6.95	3.49
	19°C	24°C	9.18	5.37	2.30	8.85	5.23	2.49	8.52	5.09	2.70	8.17	4.95	2.92	7.51	4.62	3.17	6.94	4.35	3.49
		27°C	9.19	6.18	2.30	8.86	6.04	2.49	8.53	5.91	2.70	8.19	5.77	2.92	7.53	5.39	3.17	6.96	5.10	3.50
		30°C	9.24	7.62	2.30	8.91	7.46	2.49	8.60	7.29	2.70	8.27	7.11	2.93	7.61	6.65	3.18	7.06	6.28	3.50
		33°C	9.39	9.39	2.31	9.10	9.10	2.50	8.81	8.81	2.71	8.52	8.52	2.95	7.89	7.89	3.20	7.38	7.38	3.54
	22°C	27°C	10.08	5.25	2.34	9.73	5.13	2.54	9.37	5.00	2.75	8.99	4.86	2.98	8.26	4.54	3.23	7.64	4.28	3.56
		30°C	10.09	6.45	2.34	9.74	6.31	2.54	9.38	6.17	2.75	9.00	6.03	2.98	8.28	5.65	3.23	7.66	5.36	3.56
		33°C	10.11	7.55	2.34	9.76	7.41	2.54	9.40	7.26	2.75	9.03	7.10	2.98	8.31	6.66	3.24	7.70	6.33	3.57
		36°C	10.18	8.54	2.35	9.85	8.38	2.54	9.50	8.20	2.76	9.16	8.01	2.99	8.45	7.50	3.25	7.88	7.07	3.58
792	16°C	21°C	8.64	5.92	2.28	8.32	5.77	2.47	8.00	5.61	2.67	7.67	5.46	2.89	7.03	5.08	3.14	6.48	4.78	3.46
		24°C	8.68	7.19	2.28	8.37	7.02	2.47	8.05	6.85	2.67	7.73	6.67	2.90	7.10	6.22	3.14	6.56	5.87	3.47
		27°C	8.82	8.24	2.29	8.53	8.03	2.48	8.25	7.80	2.69	7.95	7.56	2.91	7.35	7.00	3.16	6.85	6.54	3.49
		30°C	9.26	9.26	2.31	8.99	8.99	2.50	8.72	8.72	2.71	8.43	8.43	2.95	7.80	7.80	3.20	7.29	7.29	3.53
	19°C	24°C	9.51	5.68	2.32	9.16	5.54	2.51	8.81	5.39	2.72	8.46	5.25	2.95	7.76	4.89	3.20	7.16	4.61	3.52
		27°C	9.53	6.57	2.32	9.19	6.42	2.51	8.85	6.27	2.72	8.49	6.11	2.95	7.80	5.72	3.20	7.20	5.41	3.53
		30°C	9.61	8.08	2.32	9.27	7.90	2.52	8.94	7.72	2.73	8.60	7.53	2.96	7.92	7.03	3.21	7.35	6.63	3.54
		33°C	9.82	9.82	2.33	9.53	9.53	2.53	9.24	9.24	2.75	8.94	8.94	2.98	8.28	8.28	3.24	7.74	7.74	3.58
	22°C	27°C	10.43	5.55	2.36	10.06	5.43	2.56	9.68	5.29	2.77	9.29	5.16	3.01	8.54	4.81	3.26	7.89	4.54	3.59
		30°C	10.45	6.84	2.36	10.08	6.72	2.56	9.70	6.57	2.77	9.31	6.42	3.01	8.56	6.01	3.26	7.91	5.70	3.59
		33°C	10.49	8.02	2.36	10.13	7.88	2.56	9.75	7.72	2.78	9.37	7.55	3.01	8.62	7.07	3.27	7.99	6.71	3.60
		36°C	10.58	9.06	2.37	10.25	8.89	2.57	9.90	8.70	2.79	9.54	8.48	3.03	8.82	7.91	3.28	8.22	7.45	3.62

Remark:

- AFR: Air flow rate (CFM)
- EWB: Entering Wet Bulb Temp. (°C)
- EDB: Entering Dry Bulb Temp. (°C)
- TC: Total Cooling Capacity (kW)
- SC: Sensible Cooling Capacity (kW)
- PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: A5CM35C - A5LC35D

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
749	16°C	21°C	9.66	6.75	2.89	9.32	6.57	3.12	8.98	6.39	3.38	8.62	6.21	3.67	7.91	5.78	3.98	7.30	5.44	4.39
		24°C	9.68	8.08	2.89	9.33	7.89	3.12	8.99	7.71	3.38	8.63	7.52	3.67	7.93	7.02	3.98	7.33	6.63	4.39
		27°C	9.75	9.16	2.89	9.43	8.95	3.13	9.10	8.74	3.39	8.75	8.52	3.68	8.08	7.93	3.99	7.52	7.44	4.40
		30°C	10.05	10.05	2.91	9.76	9.76	3.15	9.47	9.47	3.41	9.16	9.16	3.71	8.49	8.49	4.03	7.95	7.95	4.45
	19°C	24°C	10.66	6.30	2.93	10.29	6.14	3.17	9.91	5.98	3.44	9.52	5.81	3.73	8.75	5.41	4.05	8.08	5.09	4.46
		27°C	10.67	7.21	2.93	10.29	7.04	3.18	9.91	6.88	3.44	9.52	6.72	3.73	8.75	6.28	4.05	8.10	5.95	4.46
		30°C	10.68	8.89	2.93	10.31	8.70	3.18	9.95	8.51	3.44	9.57	8.31	3.74	8.81	7.77	4.05	8.18	7.35	4.47
		33°C	10.81	10.81	2.94	10.46	10.46	3.19	10.12	10.12	3.45	9.77	9.77	3.75	9.04	9.04	4.07	8.45	8.45	4.50
	22°C	27°C	11.73	6.16	2.99	11.32	6.02	3.24	10.91	5.86	3.51	10.48	5.70	3.80	9.64	5.31	4.13	8.92	5.01	4.55
		30°C	11.73	7.51	2.99	11.33	7.35	3.24	10.91	7.19	3.51	10.48	7.01	3.80	9.64	6.57	4.13	8.93	6.23	4.55
		33°C	11.74	8.77	2.99	11.33	8.61	3.24	10.92	8.44	3.51	10.49	8.26	3.81	9.65	7.76	4.13	8.95	7.37	4.55
		36°C	11.78	9.95	2.99	11.39	9.75	3.24	10.99	9.55	3.51	10.59	9.34	3.81	9.77	8.75	4.14	9.08	8.30	4.56
930	16°C	21°C	10.06	7.04	2.91	9.69	6.86	3.15	9.33	6.67	3.41	8.94	6.49	3.70	8.21	6.04	4.01	7.57	5.68	4.42
		24°C	10.09	8.54	2.91	9.72	8.34	3.15	9.36	8.14	3.41	8.98	7.94	3.70	8.25	7.41	4.02	7.63	6.99	4.43
		27°C	10.21	9.70	2.92	9.87	9.48	3.16	9.52	9.23	3.43	9.18	8.96	3.72	8.48	8.32	4.03	7.90	7.78	4.45
		30°C	10.63	10.63	2.94	10.33	10.33	3.19	10.01	10.01	3.46	9.69	9.69	3.75	8.97	8.97	4.08	8.39	8.39	4.50
	19°C	24°C	11.08	6.66	2.96	10.68	6.49	3.20	10.28	6.32	3.47	9.87	6.15	3.77	9.06	5.73	4.08	8.37	5.40	4.50
		27°C	11.10	7.67	2.96	10.70	7.50	3.21	10.30	7.33	3.47	9.89	7.16	3.77	9.09	6.69	4.09	8.40	6.33	4.50
		30°C	11.15	9.46	2.97	10.76	9.25	3.21	10.38	9.05	3.48	9.98	8.83	3.77	9.19	8.25	4.09	8.53	7.80	4.51
		33°C	11.34	11.34	2.98	10.99	10.99	3.22	10.64	10.64	3.50	10.29	10.29	3.80	9.53	9.53	4.13	8.91	8.91	4.55
	22°C	27°C	12.17	6.52	3.02	11.74	6.37	3.27	11.31	6.20	3.54	10.86	6.04	3.84	9.98	5.63	4.16	9.23	5.31	4.59
		30°C	12.19	8.00	3.02	11.76	7.83	3.27	11.32	7.66	3.54	10.87	7.48	3.84	9.99	7.01	4.17	9.24	6.65	4.59
		33°C	12.21	9.37	3.02	11.79	9.19	3.27	11.35	9.01	3.54	10.91	8.81	3.85	10.03	8.27	4.17	9.30	7.85	4.60
		36°C	12.29	10.60	3.02	11.89	10.39	3.28	11.47	10.18	3.55	11.06	9.94	3.86	10.20	9.30	4.18	9.51	8.78	4.62
1015	16°C	21°C	10.43	7.34	2.94	10.05	7.16	3.18	9.66	6.97	3.44	9.26	6.77	3.73	8.49	6.31	4.04	7.83	5.94	4.46
		24°C	10.48	8.92	2.94	10.10	8.71	3.18	9.72	8.50	3.44	9.33	8.27	3.73	8.57	7.72	4.05	7.92	7.28	4.46
		27°C	10.65	10.22	2.95	10.30	9.96	3.19	9.96	9.68	3.46	9.60	9.38	3.75	8.87	8.69	4.08	8.27	8.11	4.50
		30°C	11.18	11.18	2.97	10.86	10.86	3.22	10.52	10.52	3.50	10.18	10.18	3.80	9.42	9.42	4.12	8.80	8.80	4.55
	19°C	24°C	11.48	7.04	2.99	11.06	6.87	3.23	10.64	6.69	3.50	10.21	6.51	3.80	9.37	6.07	4.12	8.65	5.73	4.54
		27°C	11.51	8.15	2.99	11.10	7.96	3.23	10.68	7.78	3.50	10.25	7.59	3.80	9.41	7.09	4.12	8.70	6.71	4.54
		30°C	11.61	10.03	2.99	11.20	9.81	3.24	10.79	9.58	3.51	10.38	9.34	3.81	9.56	8.73	4.13	8.87	8.23	4.56
		33°C	11.86	11.86	3.01	11.51	11.51	3.26	11.16	11.16	3.54	10.79	10.79	3.84	9.99	9.99	4.17	9.35	9.35	4.61
	22°C	27°C	12.59	6.89	3.04	12.15	6.74	3.30	11.69	6.57	3.57	11.22	6.40	3.87	10.31	5.97	4.20	9.52	5.64	4.62
		30°C	12.62	8.49	3.04	12.17	8.33	3.30	11.71	8.15	3.57	11.24	7.97	3.87	10.33	7.46	4.20	9.55	7.07	4.63
		33°C	12.66	9.95	3.05	12.23	9.78	3.30	11.78	9.57	3.58	11.31	9.36	3.88	10.41	8.78	4.21	9.64	8.33	4.64
		36°C	12.78	11.24	3.05	12.38	11.03	3.31	11.95	10.79	3.59	11.52	10.52	3.90	10.64	9.82	4.23	9.93	9.24	4.67

Remark:

AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: A5CM40C - A5LC40D

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
751	16°C	21°C	11.32	7.47	3.12	10.92	7.28	3.37	10.51	7.08	3.65	10.09	6.88	3.96	9.27	6.40	4.29	8.56	6.02	4.73
		24°C	11.34	8.95	3.12	10.93	8.75	3.37	10.53	8.54	3.65	10.11	8.33	3.96	9.29	7.78	4.29	8.59	7.34	4.73
		27°C	11.43	10.15	3.12	11.05	9.92	3.38	10.66	9.68	3.66	10.26	9.44	3.97	9.46	8.78	4.31	8.80	8.25	4.75
		30°C	11.78	11.78	3.13	11.44	11.44	3.39	11.09	11.09	3.68	10.74	10.74	4.00	9.95	9.95	4.34	9.31	9.31	4.80
	19°C	24°C	12.49	6.98	3.16	12.05	6.80	3.43	11.61	6.62	3.71	11.15	6.43	4.03	10.25	5.99	4.37	9.47	5.64	4.81
		27°C	12.50	7.98	3.16	12.06	7.80	3.43	11.61	7.63	3.71	11.16	7.44	4.03	10.26	6.96	4.37	9.48	6.59	4.81
		30°C	12.52	9.85	3.17	12.08	9.64	3.43	11.66	9.43	3.71	11.21	9.20	4.03	10.33	8.61	4.37	9.58	8.14	4.82
		33°C	12.66	12.66	3.17	12.25	12.25	3.44	11.85	11.85	3.73	11.45	11.45	4.05	10.59	10.59	4.39	9.90	9.90	4.85
	22°C	27°C	13.74	6.83	3.22	13.26	6.67	3.49	12.78	6.50	3.78	12.28	6.32	4.10	11.29	5.89	4.45	10.45	5.55	4.90
		30°C	13.74	8.32	3.22	13.27	8.15	3.49	12.78	7.96	3.78	12.28	7.77	4.10	11.30	7.28	4.45	10.46	6.90	4.91
		33°C	13.75	9.72	3.22	13.27	9.54	3.49	12.79	9.35	3.78	12.29	9.15	4.11	11.31	8.59	4.45	10.48	8.16	4.91
		36°C	13.79	11.02	3.22	13.34	10.80	3.50	12.88	10.58	3.79	12.41	10.34	4.11	11.44	9.70	4.46	10.64	9.20	4.92
999	16°C	21°C	11.78	7.80	3.14	11.36	7.60	3.40	10.93	7.40	3.68	10.48	7.19	3.99	9.62	6.69	4.33	8.87	6.30	4.77
		24°C	11.82	9.47	3.14	11.39	9.25	3.40	10.97	9.02	3.68	10.52	8.80	4.00	9.67	8.21	4.33	8.94	7.75	4.78
		27°C	11.96	10.75	3.15	11.56	10.50	3.41	11.16	10.23	3.70	10.76	9.93	4.01	9.93	9.22	4.35	9.25	8.63	4.80
		30°C	12.46	12.46	3.17	12.10	12.10	3.44	11.73	11.73	3.73	11.35	11.35	4.05	10.52	10.52	4.40	9.83	9.83	4.86
	19°C	24°C	12.98	7.38	3.19	12.52	7.19	3.46	12.05	7.01	3.75	11.56	6.81	4.06	10.62	6.35	4.41	9.81	5.98	4.85
		27°C	13.00	8.50	3.20	12.54	8.31	3.46	12.07	8.12	3.75	11.59	7.93	4.06	10.65	7.41	4.41	9.84	7.02	4.86
		30°C	13.07	10.48	3.20	12.61	10.26	3.46	12.16	10.03	3.75	11.69	9.78	4.07	10.77	9.15	4.42	9.99	8.64	4.87
		33°C	13.28	13.28	3.21	12.88	12.88	3.48	12.47	12.47	3.77	12.05	12.05	4.10	11.17	11.17	4.45	10.44	10.44	4.91
	22°C	27°C	14.26	7.22	3.25	13.76	7.05	3.52	13.25	6.88	3.82	12.72	6.69	4.14	11.69	6.24	4.49	10.81	5.89	4.95
		30°C	14.28	8.87	3.25	13.78	8.68	3.53	13.26	8.49	3.82	12.74	8.29	4.14	11.71	7.76	4.49	10.83	7.37	4.95
		33°C	14.31	10.39	3.26	13.81	10.19	3.53	13.30	9.98	3.82	12.78	9.77	4.15	11.76	9.16	4.50	10.90	8.70	4.96
		36°C	14.39	11.74	3.26	13.93	11.52	3.54	13.44	11.28	3.83	12.95	11.02	4.16	11.95	10.31	4.52	11.14	9.73	4.98
1107	16°C	21°C	12.22	8.14	3.17	11.77	7.93	3.43	11.32	7.72	3.71	10.85	7.51	4.02	9.95	6.99	4.36	9.17	6.58	4.81
		24°C	12.28	9.89	3.17	11.84	9.65	3.43	11.39	9.42	3.72	10.93	9.17	4.03	10.04	8.56	4.37	9.27	8.07	4.82
		27°C	12.48	11.33	3.18	12.07	11.04	3.44	11.66	10.73	3.73	11.25	10.40	4.05	10.39	9.63	4.40	9.68	8.99	4.85
		30°C	13.10	13.10	3.21	12.72	12.72	3.48	12.33	12.33	3.77	11.92	11.92	4.09	11.04	11.04	4.45	10.31	10.31	4.91
	19°C	24°C	13.45	7.81	3.22	12.96	7.61	3.49	12.47	7.42	3.78	11.96	7.22	4.10	10.98	6.73	4.44	10.13	6.35	4.89
		27°C	13.49	9.03	3.22	13.00	8.82	3.49	12.51	8.62	3.78	12.01	8.41	4.10	11.03	7.86	4.45	10.19	7.44	4.90
		30°C	13.60	11.11	3.23	13.12	10.87	3.50	12.65	10.62	3.79	12.16	10.36	4.11	11.20	9.67	4.46	10.40	9.12	4.92
		33°C	13.89	13.89	3.24	13.49	13.49	3.52	13.07	13.07	3.82	12.64	12.64	4.14	11.71	11.71	4.50	10.95	10.95	4.97
	22°C	27°C	14.76	7.64	3.28	14.23	7.47	3.56	13.70	7.28	3.85	13.15	7.09	4.18	12.08	6.62	4.53	11.16	6.25	4.99
		30°C	14.79	9.41	3.28	14.26	9.24	3.56	13.72	9.03	3.86	13.17	8.83	4.18	12.10	8.27	4.53	11.19	7.84	4.99
		33°C	14.84	11.03	3.29	14.33	10.84	3.56	13.80	10.61	3.86	13.26	10.38	4.19	12.20	9.73	4.54	11.30	9.23	5.00
		36°C	14.97	12.46	3.29	14.50	12.23	3.57	14.00	11.96	3.87	13.50	11.67	4.20	12.47	10.88	4.56	11.63	10.24	5.04

Remark:

AFR: Air flow rate (CFM)
 EWB: Entering Wet Bulb Temp. (°C)
 EDB: Entering Dry Bulb Temp. (°C)
 TC: Total Cooling Capacity (kW)
 SC: Sensible Cooling Capacity (kW)
 PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: A5CM50C - A5LC50D

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
1113	16°C	21°C	12.30	8.47	3.72	11.87	8.25	4.03	11.42	8.03	4.36	10.97	7.80	4.73	10.07	7.26	5.13	9.30	6.83	5.66
		24°C	12.32	10.15	3.72	11.88	9.92	4.03	11.44	9.68	4.36	10.98	9.44	4.73	10.09	8.82	5.13	9.33	8.32	5.66
		27°C	12.41	11.51	3.73	12.00	11.24	4.03	11.58	10.98	4.37	11.14	10.70	4.74	10.28	9.96	5.15	9.57	9.35	5.68
		30°C	12.80	12.80	3.75	12.43	12.43	4.06	12.05	12.05	4.40	11.66	11.66	4.78	10.81	10.81	5.19	10.12	10.12	5.73
	19°C	24°C	13.57	7.91	3.78	13.09	7.71	4.09	12.61	7.51	4.44	12.11	7.29	4.81	11.13	6.79	5.22	10.29	6.40	5.75
		27°C	13.58	9.05	3.78	13.10	8.85	4.10	12.62	8.65	4.44	12.12	8.44	4.81	11.14	7.89	5.22	10.30	7.48	5.75
		30°C	13.60	11.17	3.78	13.13	10.93	4.10	12.66	10.69	4.44	12.18	10.43	4.82	11.22	9.76	5.23	10.41	9.23	5.76
		33°C	13.76	13.76	3.79	13.31	13.31	4.11	12.88	12.88	4.45	12.44	12.44	4.84	11.51	11.51	5.25	10.76	10.76	5.80
	22°C	27°C	14.93	7.74	3.85	14.41	7.56	4.17	13.88	7.37	4.52	13.34	7.16	4.91	12.27	6.68	5.32	11.36	6.29	5.86
		30°C	14.93	9.44	3.85	14.42	9.24	4.17	13.89	9.03	4.52	13.34	8.81	4.91	12.27	8.25	5.32	11.36	7.82	5.86
		33°C	14.94	11.02	3.85	14.42	10.81	4.17	13.90	10.60	4.52	13.35	10.38	4.91	12.29	9.74	5.32	11.39	9.26	5.87
		36°C	14.99	12.50	3.85	14.49	12.25	4.18	13.99	11.99	4.53	13.48	11.73	4.92	12.43	11.00	5.34	11.56	10.43	5.88
1187	16°C	21°C	12.79	8.83	3.76	12.33	8.61	4.06	11.87	8.38	4.40	11.38	8.14	4.77	10.44	7.58	5.17	9.63	7.13	5.70
		24°C	12.83	10.72	3.76	12.37	10.47	4.07	11.91	10.22	4.40	11.43	9.96	4.77	10.50	9.29	5.18	9.70	8.77	5.71
		27°C	12.99	12.18	3.77	12.55	11.89	4.08	12.12	11.59	4.42	11.68	11.24	4.79	10.79	10.44	5.20	10.05	9.77	5.74
		30°C	13.53	13.53	3.79	13.14	13.14	4.11	12.74	12.74	4.46	12.32	12.32	4.84	11.42	11.42	5.26	10.67	10.67	5.80
	19°C	24°C	14.10	8.36	3.82	13.59	8.15	4.13	13.08	7.93	4.48	12.56	7.72	4.85	11.53	7.19	5.27	10.65	6.78	5.80
		27°C	14.12	9.62	3.82	13.62	9.41	4.13	13.11	9.20	4.48	12.58	8.98	4.86	11.56	8.40	5.27	10.69	7.95	5.81
		30°C	14.19	11.87	3.82	13.69	11.62	4.14	13.20	11.36	4.49	12.70	11.08	4.87	11.69	10.36	5.28	10.85	9.79	5.82
		33°C	14.42	14.42	3.84	13.98	13.98	4.16	13.54	13.54	4.51	13.09	13.09	4.90	12.12	12.12	5.32	11.34	11.34	5.87
	22°C	27°C	15.49	8.18	3.89	14.94	7.99	4.21	14.39	7.79	4.57	13.81	7.58	4.95	12.70	7.07	5.37	11.74	6.67	5.91
		30°C	15.51	10.04	3.89	14.96	9.83	4.21	14.40	9.61	4.57	13.83	9.39	4.95	12.71	8.79	5.37	11.76	8.34	5.92
		33°C	15.53	11.76	3.89	14.99	11.54	4.22	14.44	11.30	4.57	13.88	11.06	4.96	12.76	10.38	5.38	11.83	9.85	5.93
		36°C	15.63	13.30	3.90	15.13	13.05	4.23	14.60	12.78	4.58	14.07	12.48	4.97	12.98	11.68	5.40	12.10	11.02	5.95
1247	16°C	21°C	13.27	9.21	3.79	12.78	8.98	4.10	12.29	8.74	4.44	11.78	8.50	4.81	10.80	7.92	5.21	9.96	7.45	5.75
		24°C	13.34	11.20	3.79	12.85	10.93	4.10	12.37	10.66	4.44	11.87	10.38	4.82	10.90	9.69	5.22	10.07	9.14	5.76
		27°C	13.55	12.83	3.80	13.11	12.50	4.12	12.66	12.15	4.46	12.21	11.77	4.84	11.28	10.91	5.26	10.51	10.18	5.80
		30°C	14.23	14.23	3.84	13.81	13.81	4.16	13.39	13.39	4.51	12.95	12.95	4.89	11.99	11.99	5.32	11.20	11.20	5.87
	19°C	24°C	14.60	8.84	3.85	14.07	8.62	4.17	13.54	8.40	4.51	12.99	8.17	4.89	11.92	7.62	5.31	11.00	7.19	5.85
		27°C	14.64	10.23	3.85	14.12	9.99	4.17	13.59	9.76	4.52	13.04	9.52	4.90	11.97	8.90	5.31	11.07	8.42	5.86
		30°C	14.77	12.58	3.86	14.24	12.31	4.18	13.73	12.03	4.53	13.21	11.73	4.91	12.16	10.95	5.33	11.29	10.32	5.88
		33°C	15.09	15.09	3.88	14.64	14.64	4.20	14.19	14.19	4.56	13.73	13.73	4.95	12.72	12.72	5.38	11.89	11.89	5.94
	22°C	27°C	16.02	8.65	3.92	15.45	8.46	4.25	14.87	8.24	4.60	14.27	8.03	4.99	13.11	7.49	5.41	12.12	7.07	5.96
		30°C	16.06	10.66	3.92	15.48	10.46	4.25	14.90	10.23	4.61	14.30	10.00	5.00	13.14	9.36	5.42	12.15	8.87	5.97
		33°C	16.11	12.49	3.93	15.55	12.27	4.26	14.98	12.02	4.61	14.39	11.75	5.00	13.24	11.01	5.43	12.27	10.45	5.98
		36°C	16.25	14.10	3.94	15.75	13.85	4.27	15.20	13.54	4.63	14.65	13.21	5.02	13.54	12.32	5.45	12.63	11.60	6.02

Remark:

AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: A5CM62C - A5LC61D

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
1000	16°C	21°C	15.18	10.02	4.87	14.65	9.76	5.27	14.10	9.50	5.71	13.54	9.23	6.19	12.43	8.59	6.71	11.48	8.08	7.40
		24°C	15.20	12.00	4.87	14.67	11.73	5.27	14.12	11.46	5.71	13.56	11.17	6.19	12.46	10.43	6.72	11.52	9.84	7.41
		27°C	15.32	13.61	4.88	14.81	13.30	5.28	14.29	12.99	5.72	13.76	12.65	6.20	12.69	11.78	6.74	11.81	11.06	7.43
		30°C	15.80	15.80	4.90	15.34	15.34	5.31	14.88	14.88	5.76	14.40	14.40	6.25	13.35	13.35	6.79	12.49	12.49	7.50
	19°C	24°C	16.75	9.36	4.95	16.16	9.12	5.36	15.57	8.88	5.81	14.95	8.63	6.30	13.74	8.04	6.83	12.70	7.57	7.53
		27°C	16.76	10.71	4.95	16.17	10.47	5.36	15.58	10.23	5.81	14.96	9.98	6.30	13.75	9.33	6.83	12.72	8.84	7.53
		30°C	16.79	13.21	4.95	16.21	12.93	5.36	15.63	12.65	5.81	15.04	12.34	6.30	13.85	11.54	6.84	12.85	10.92	7.54
		33°C	16.99	16.99	4.96	16.43	16.43	5.38	15.90	15.90	5.83	15.36	15.36	6.33	14.21	14.21	6.87	13.28	13.28	7.59
	22°C	27°C	18.43	9.16	5.04	17.79	8.94	5.46	17.14	8.71	5.92	16.47	8.47	6.42	15.15	7.90	6.96	14.02	7.45	7.67
		30°C	18.43	11.16	5.04	17.80	10.93	5.46	17.14	10.68	5.92	16.47	10.42	6.42	15.15	9.76	6.97	14.02	9.25	7.67
		33°C	18.44	13.04	5.04	17.80	12.79	5.46	17.16	12.54	5.92	16.49	12.28	6.42	15.17	11.52	6.97	14.06	10.95	7.68
		36°C	18.50	14.78	5.04	17.89	14.49	5.47	17.27	14.19	5.93	16.64	13.87	6.43	15.35	13.01	6.98	14.27	12.34	7.70
1320	16°C	21°C	15.80	10.46	4.92	15.23	10.19	5.32	14.66	9.92	5.76	14.06	9.64	6.24	12.90	8.98	6.77	11.90	8.45	7.46
		24°C	15.85	12.70	4.92	15.28	12.40	5.32	14.71	12.10	5.76	14.12	11.80	6.25	12.97	11.01	6.78	11.99	10.39	7.47
		27°C	16.04	14.42	4.93	15.50	14.08	5.33	14.97	13.72	5.78	14.43	13.31	6.27	13.32	12.37	6.81	12.41	11.57	7.52
		30°C	16.71	16.71	4.97	16.23	16.23	5.38	15.73	15.73	5.83	15.22	15.22	6.33	14.10	14.10	6.88	13.18	13.18	7.60
	19°C	24°C	17.41	9.90	5.00	16.79	9.65	5.41	16.16	9.40	5.86	15.51	9.14	6.35	14.24	8.51	6.89	13.16	8.03	7.59
		27°C	17.44	11.40	5.00	16.82	11.15	5.41	16.19	10.89	5.86	15.54	10.64	6.36	14.28	9.94	6.90	13.20	9.41	7.60
		30°C	17.52	14.06	5.00	16.91	13.76	5.42	16.31	13.45	5.87	15.69	13.12	6.37	14.44	12.27	6.91	13.40	11.59	7.62
		33°C	17.82	17.82	5.02	17.27	17.27	5.44	16.72	16.72	5.90	16.17	16.17	6.41	14.98	14.98	6.96	14.00	14.00	7.69
	22°C	27°C	19.13	9.69	5.09	18.46	9.46	5.51	17.77	9.22	5.98	17.06	8.97	6.48	15.68	8.37	7.03	14.50	7.90	7.74
		30°C	19.15	11.89	5.09	18.48	11.64	5.52	17.79	11.38	5.98	17.08	11.12	6.48	15.70	10.41	7.03	14.52	9.88	7.74
		33°C	19.19	13.93	5.09	18.52	13.67	5.52	17.84	13.39	5.98	17.14	13.10	6.49	15.77	12.29	7.04	14.62	11.67	7.76
		36°C	19.31	15.75	5.10	18.68	15.45	5.53	18.03	15.13	6.00	17.37	14.78	6.51	16.03	13.83	7.06	14.95	13.05	7.79
1550	16°C	21°C	16.39	10.92	4.96	15.79	10.64	5.36	15.18	10.36	5.81	14.55	10.07	6.29	13.35	9.38	6.83	12.30	8.83	7.52
		24°C	16.48	13.26	4.96	15.88	12.95	5.37	15.28	12.63	5.81	14.66	12.30	6.30	13.47	11.48	6.84	12.44	10.82	7.53
		27°C	16.74	15.20	4.98	16.19	14.81	5.39	15.65	14.39	5.84	15.09	13.95	6.34	13.94	12.92	6.88	12.99	12.06	7.59
		30°C	17.58	17.58	5.02	17.06	17.06	5.44	16.54	16.54	5.90	16.00	16.00	6.41	14.81	14.81	6.96	13.83	13.83	7.68
	19°C	24°C	18.04	10.47	5.04	17.39	10.21	5.45	16.73	9.95	5.91	16.05	9.68	6.41	14.73	9.02	6.95	13.59	8.51	7.65
		27°C	18.09	12.11	5.04	17.44	11.84	5.46	16.79	11.56	5.91	16.11	11.28	6.41	14.79	10.55	6.96	13.67	9.98	7.66
		30°C	18.24	14.91	5.05	17.60	14.58	5.47	16.97	14.25	5.93	16.32	13.89	6.43	15.02	12.97	6.98	13.95	12.23	7.69
		33°C	18.64	18.64	5.08	18.09	18.09	5.50	17.53	17.53	5.97	16.96	16.96	6.48	15.71	15.71	7.04	14.69	14.69	7.78
	22°C	27°C	19.79	10.24	5.13	19.09	10.02	5.56	18.37	9.77	6.03	17.63	9.51	6.54	16.20	8.87	7.09	14.97	8.38	7.80
		30°C	19.84	12.63	5.14	19.13	12.39	5.56	18.41	12.12	6.03	17.67	11.84	6.54	16.24	11.09	7.09	15.02	10.51	7.81
		33°C	19.90	14.80	5.14	19.22	14.54	5.57	18.51	14.23	6.04	17.78	13.92	6.55	16.36	13.05	7.11	15.16	12.38	7.83
		36°C	20.08	16.71	5.15	19.45	16.41	5.59	18.78	16.05	6.06	18.10	15.65	6.58	16.73	14.60	7.14	15.60	13.74	7.88

Remark:

AFR: Air flow rate (CFM)
 EWB: Entering Wet Bulb Temp. (°C)
 EDB: Entering Dry Bulb Temp. (°C)
 TC: Total Cooling Capacity (kW)
 SC: Sensible Cooling Capacity (kW)
 PI: Power Input (kW)

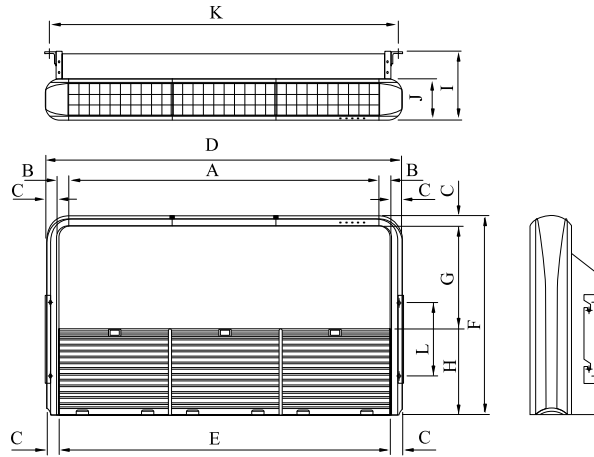
Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Outlines & Dimensions

Indoor Unit

Model: A5CM15/20/25/30/35/40/50/62C

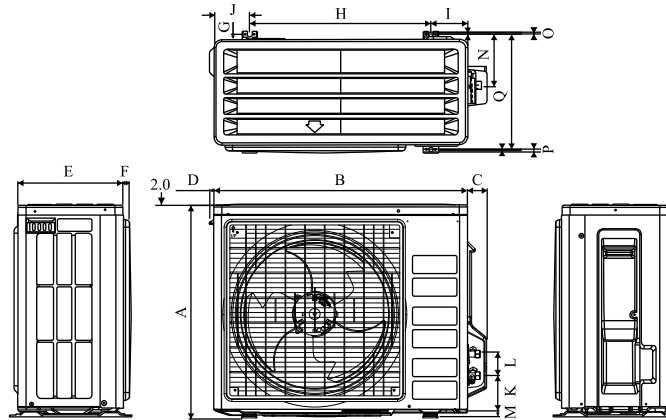


Dimension	A	B	C	D	E	F	G	H	I	J	K	L
Model												
A5CM15C	1050	40	36	1203	1130	680	352	292	235	140	1180	250
A5CM20C	1050	40	36	1203	1130	680	352	292	235	140	1180	250
A5CM25C	1050	40	36	1203	1130	680	352	292	235	140	1180	250
A5CM30C	1400	40	36	1553	1480	680	352	292	235	140	1530	250
A5CM35C	1750	40	36	1903	1830	680	352	292	235	140	1880	250
A5CM40C	1750	40	36	1903	1830	680	352	292	235	140	1880	250
A5CM50C	1750	40	36	1903	1830	680	352	292	235	140	1880	250
A5CM62C	1750	40	36	1903	1830	680	352	292	285	140	1880	250

Note: Dimension in mm

Outdoor Unit

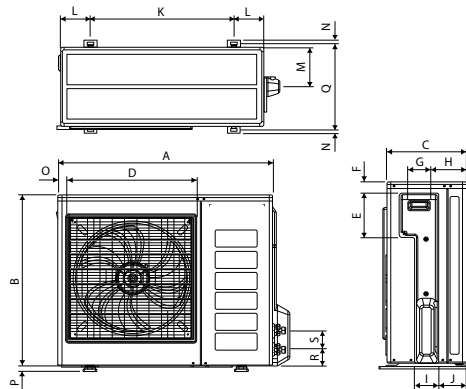
Model: A5LC15F



Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Model																	
A5LC15F	550	658	51	11	273	16	14	470	96	93	94	60	14	133	8	10	299

Note: Dimension in mm

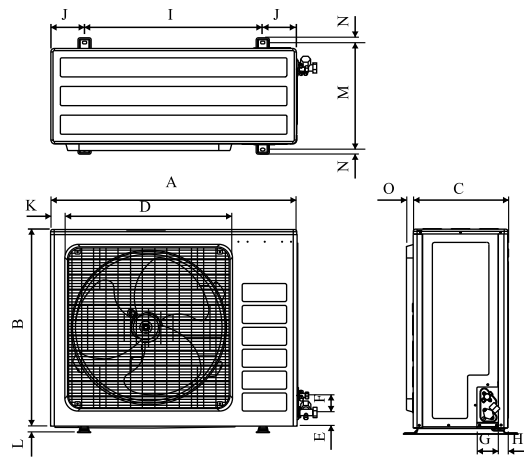
Model: A5LC20/25/28/30C



Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
Model																			
A5LC20/25C	855	628	328	520	179	46	93	149	101	113	603	126	164	15	34	23	362	73	75
A5LC28/30C	855	730	328	520	179	46	93	149	101	113	603	126	164	15	34	23	362	73	75

Note: Dimension in mm

Model: A5LC35/40/50/61D



Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Model															
A5LC35/40/50/61D	1030	826	400	695	57	72	90	40	746	142	60	26	448	22	28

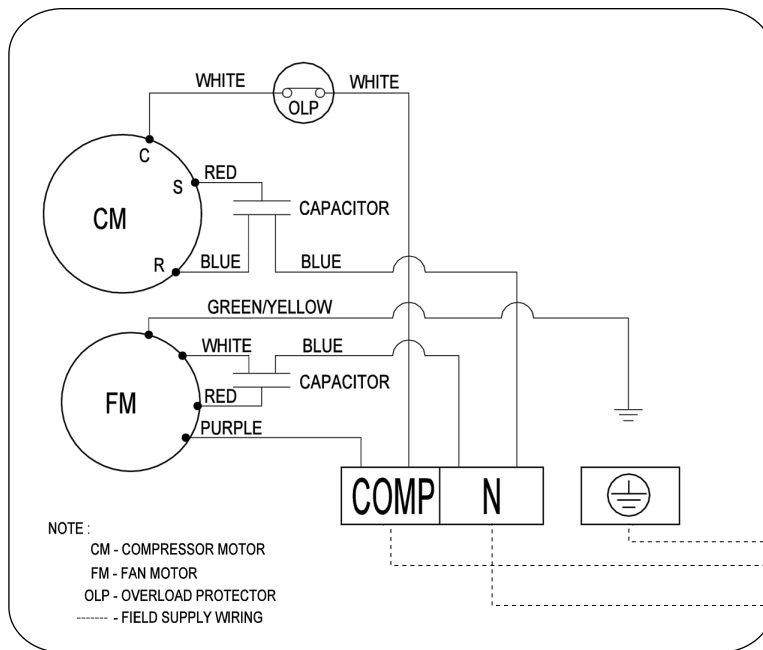
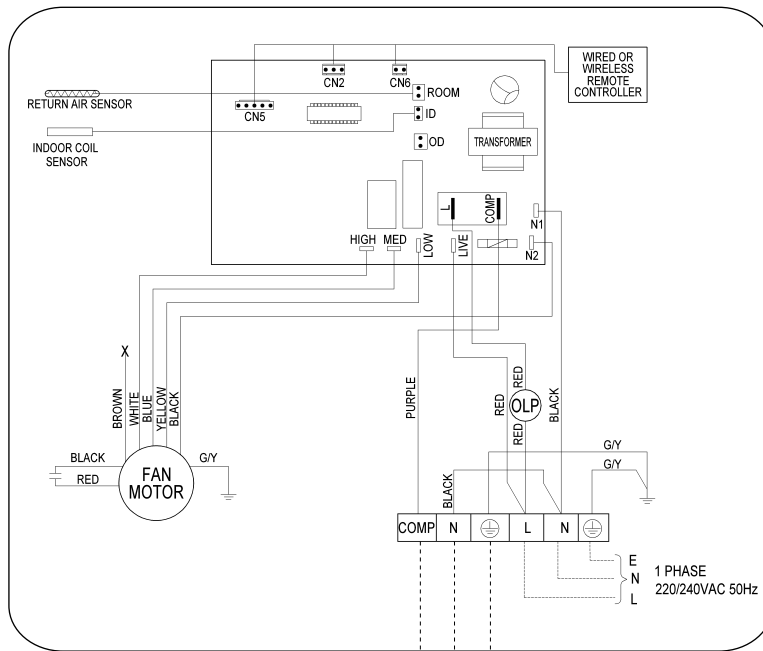
Note: Dimension in mm

Wiring Diagrams

Cooling Only

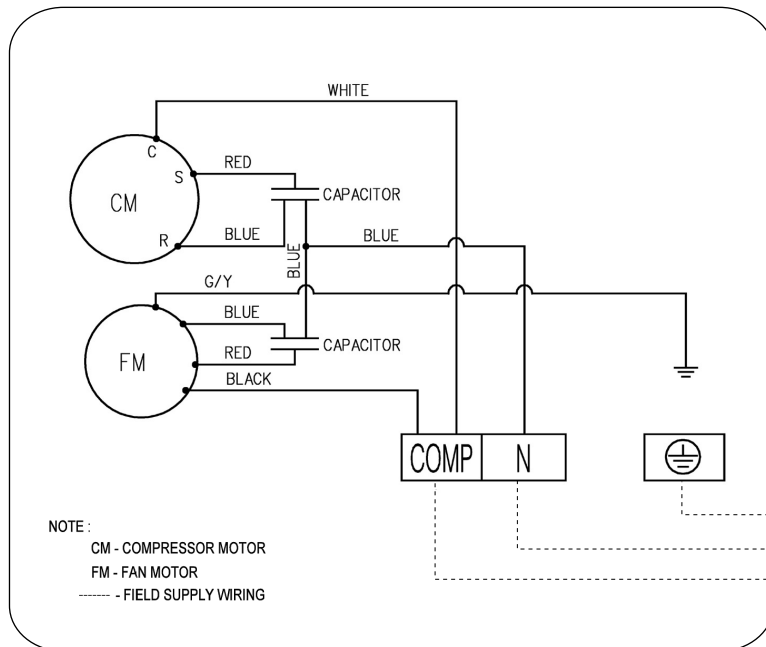
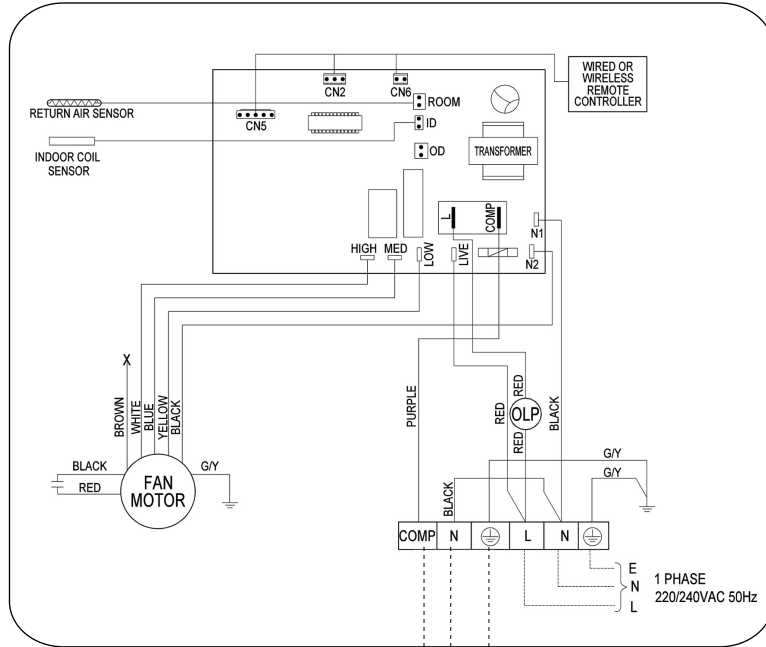
Indoor Unit
Model: A5CM15C

Outdoor Unit
Model: A5LC15F



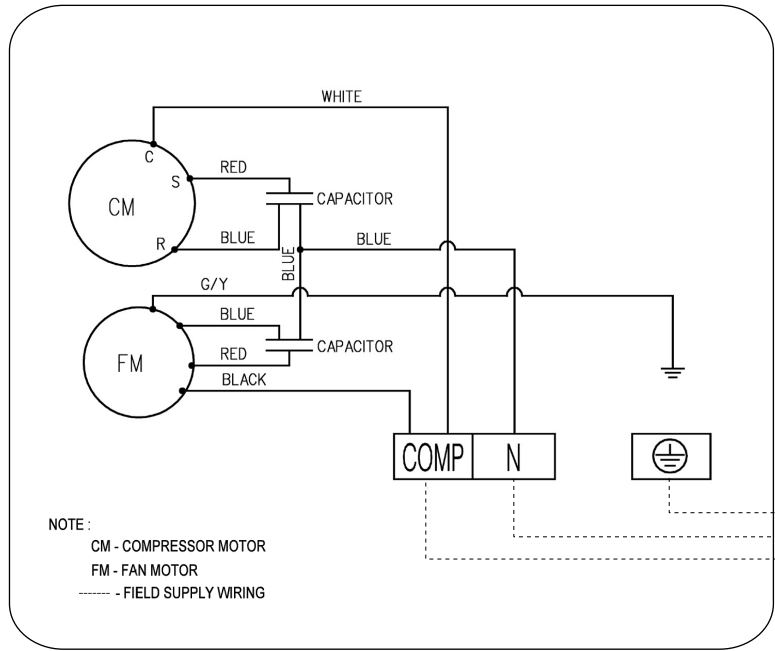
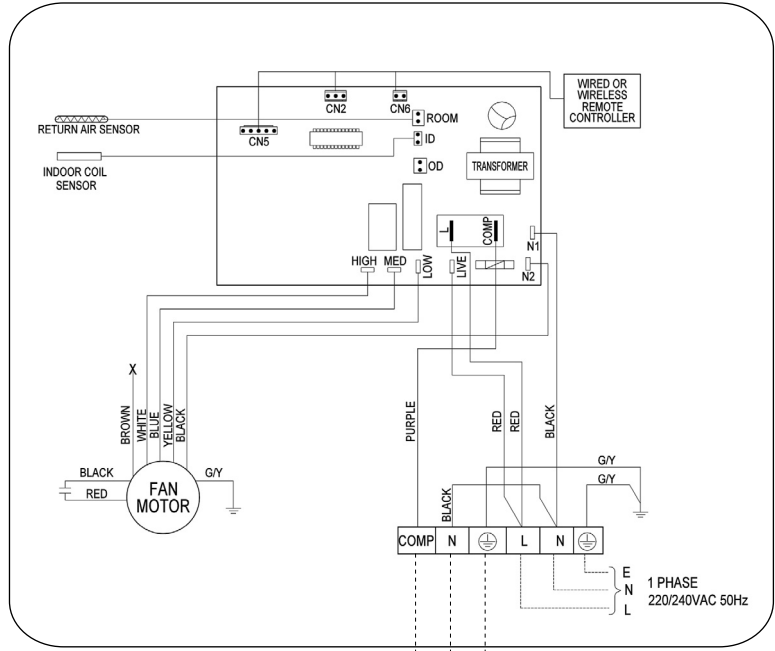
Indoor Unit
Model: A5CM20/25C

Outdoor Unit
Model: A5LC20/25C



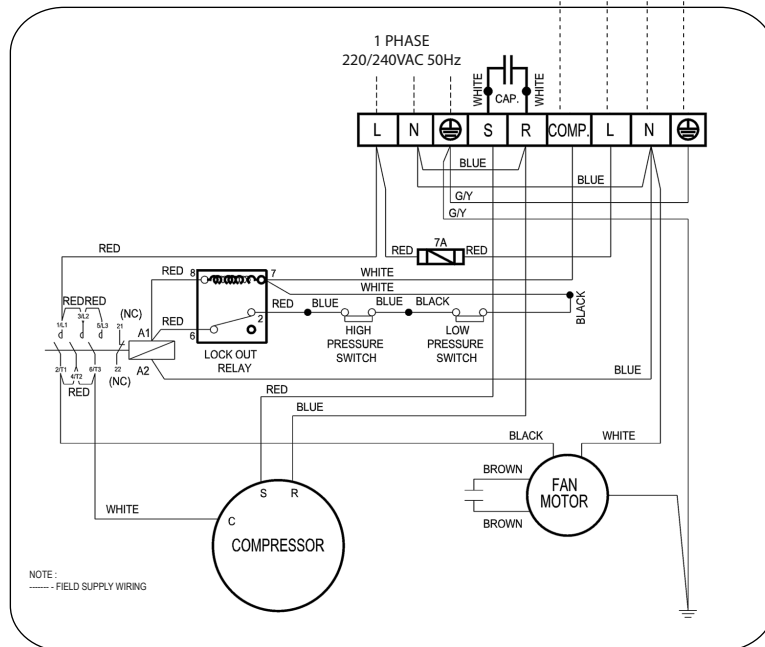
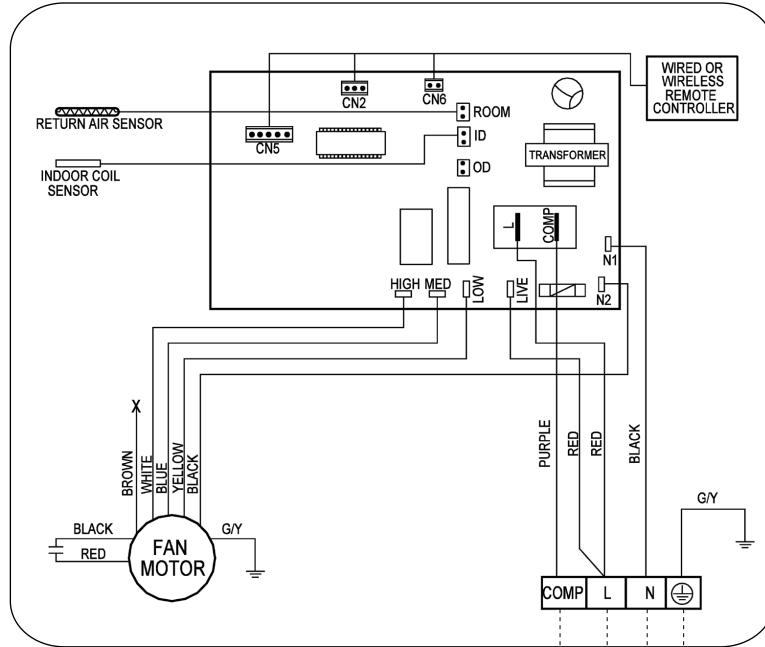
Indoor Unit
Model: A5CM30C

Outdoor Unit
Model: A5LC28/30C



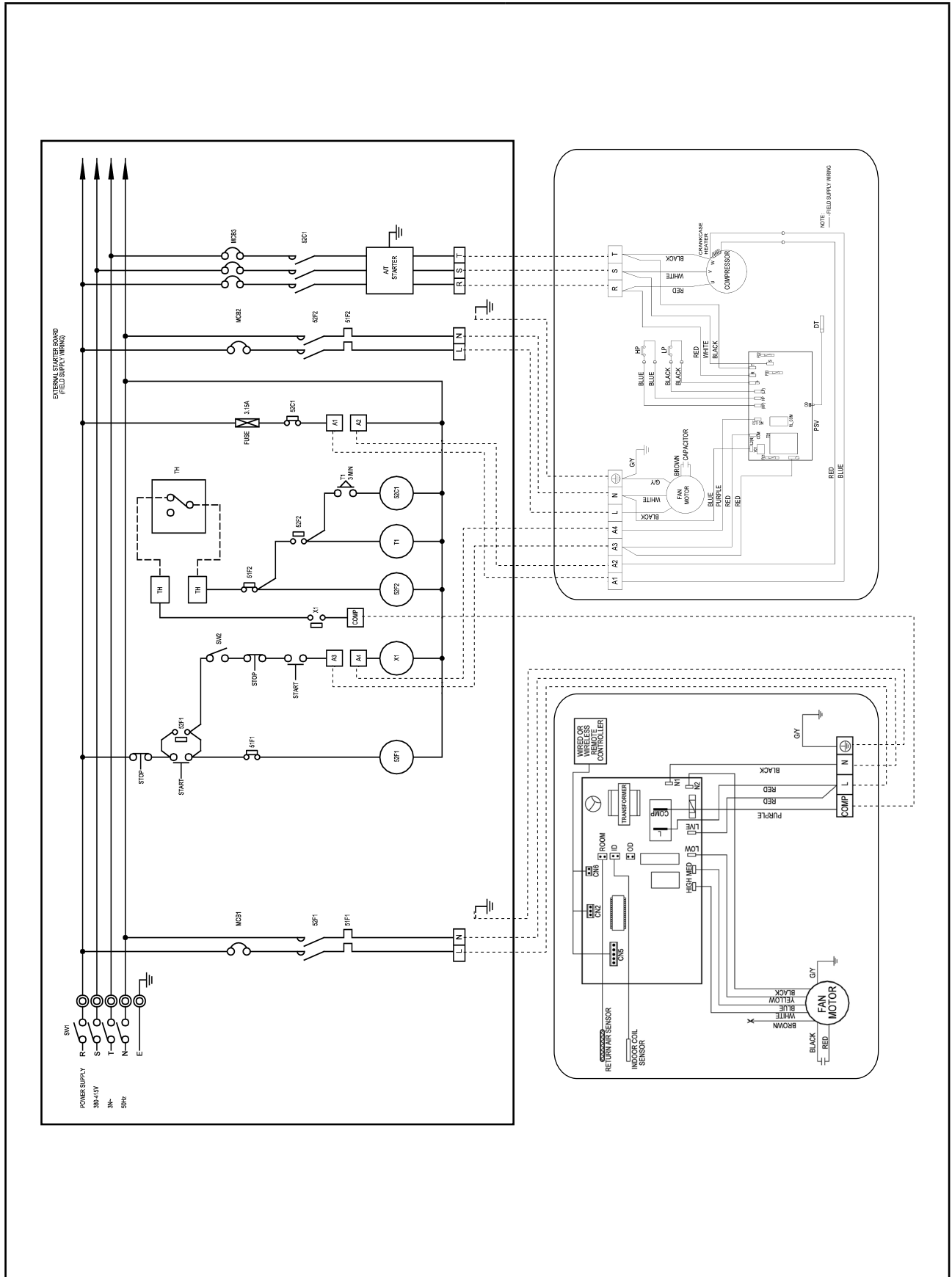
Indoor Unit
Model: A5CM35C

Outdoor Unit
Model: A5LC35D



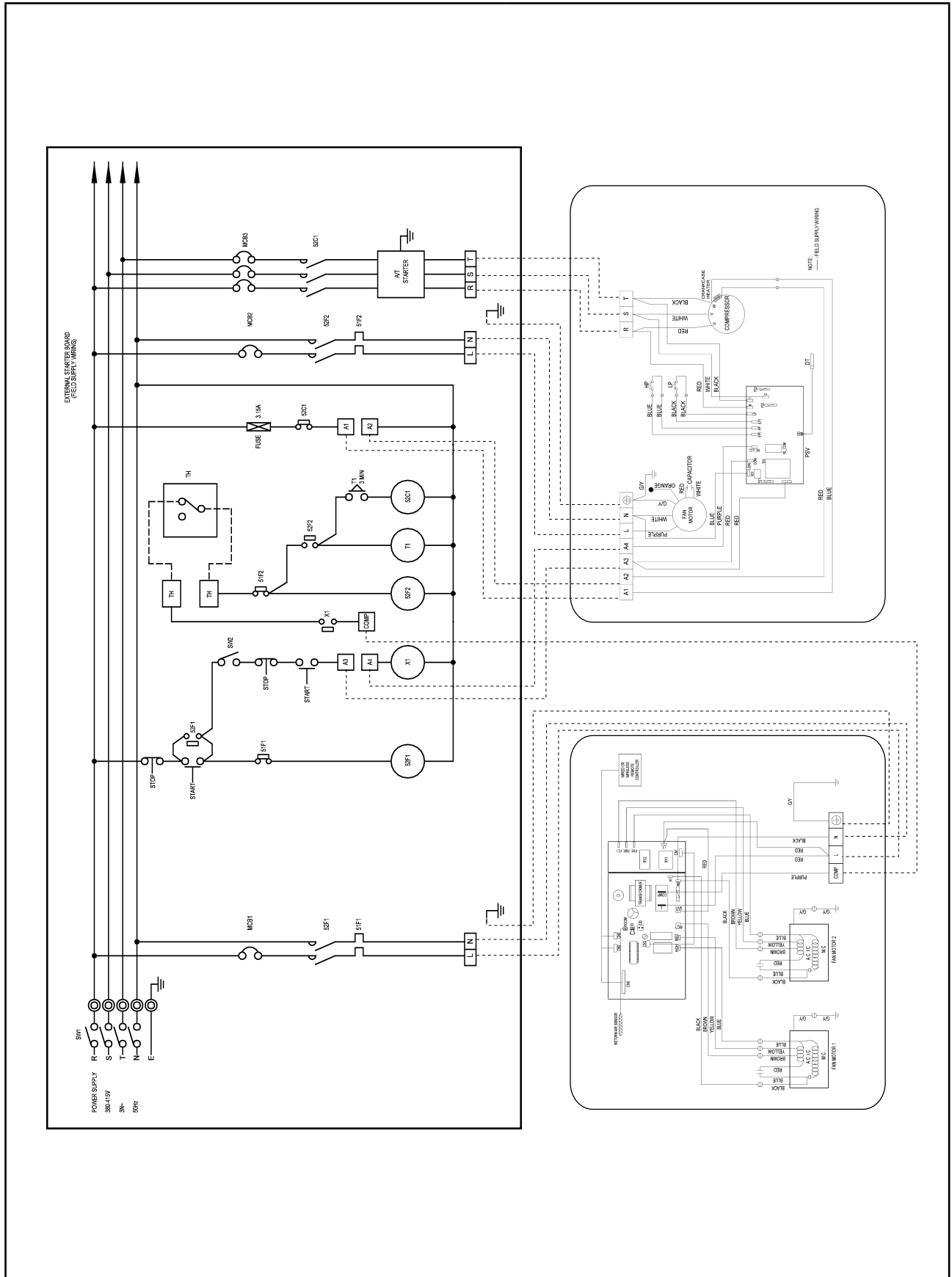
Indoor Unit
Model: A5CM40/50C

Outdoor Unit
Model: A5LC40/50D



Indoor Unit
Model: A5CM62C

Outdoor Unit
Model: A5LC61D



Service & Maintenance



Warning

- Disconnect from main supply before servicing the air conditioner.
- The unit is designed to give long life operation with minimum maintenance required. However, it should be regularly checked and the following items should be given due attention.

Components	Maintenance Procedures	Period
Air Filter (Indoor Unit)	<ol style="list-style-type: none"> 1. Remove any dust adhering to the filter by using a vacuum cleaner or wash in lukewarm water (below 40°C) with a neutral cleaning detergent. 2. Rinse the filter well and dry before placing it back onto the unit. 3. Note: Never use gasoline, volatile substances or chemicals to clean the filter. 	At least once every 2 weeks. More frequently if necessary.
Indoor Unit	<ol style="list-style-type: none"> 1. Clean any dirt or dust on the grille or panel by wiping it with a soft cloth soaked in lukewarm water (below 40°C) and a neutral detergent solution. 2. Note: Never use gasoline, volatile substances or chemicals to clean the indoor unit. 	At least once every 2 weeks. More frequently if necessary.
Condense Drain Pan & Pipe	<ol style="list-style-type: none"> 1. Check the cleanliness and clean it if necessary. 2. Check the condensate water flow. 	Every 3 months.
Indoor Fan	Check if there is any abnormal noise.	If necessary.
Indoor / Outdoor Coil	<ol style="list-style-type: none"> 1. Check and remove the dirt between the fins. 2. Check and remove any obstacles which hinder air flow through the indoor or outdoor. 	Every month.
Power Supply	<ol style="list-style-type: none"> 1. Check the running current and voltage for indoor and outdoor unit. 2. Check the electrical wiring and tighten the wire onto the terminal block if necessary. 	Every 2 months. Every year.
Compressor	No maintenance needed if refrigerant circuit remains sealed. How-ever, check for refrigerant leak at joint and fitting.	Every 6 months.



Caution

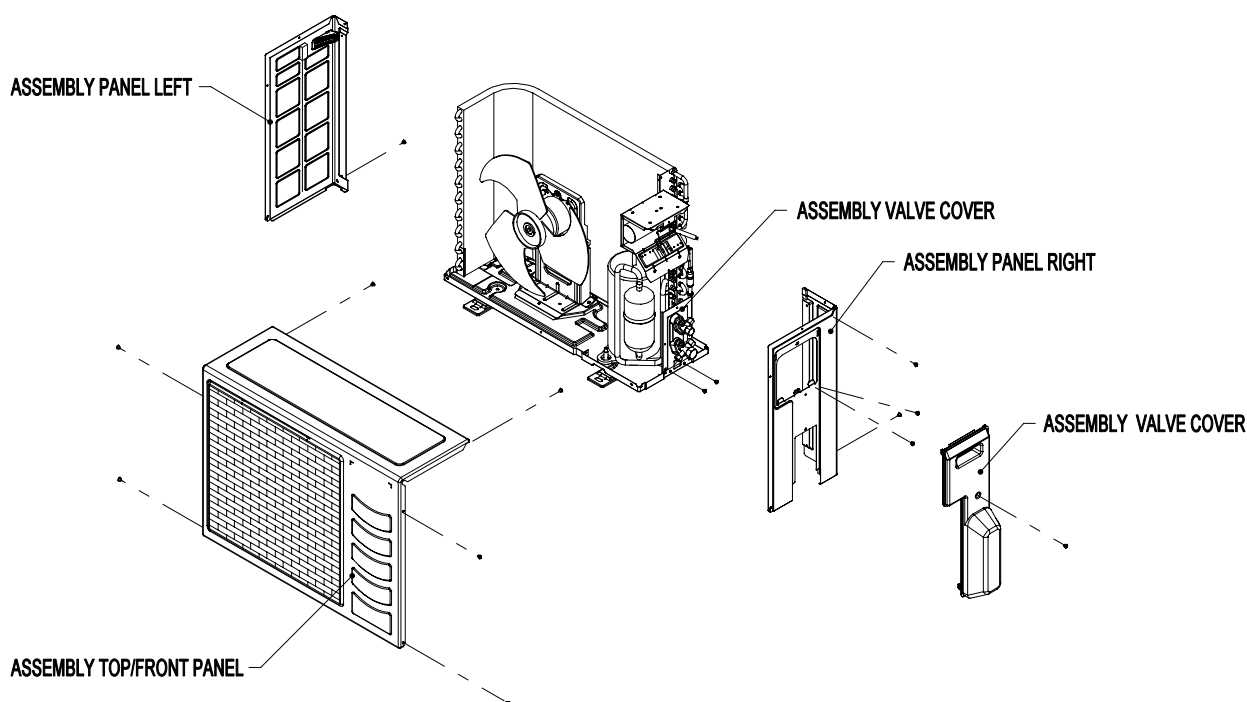
- Don't touch the metal parts of the indoor unit. It may cause an injury.
- When removing or attaching the front panel, use a robust and stable stool and watch your steps carefully.
- When removing or attaching the front panel, support the panel securely with hand to prevent from it falling.
- For cleansing, do no use hot water above 40°C, benzene, gasoline, thinner, nor other volatile oils, polishing compound, scrubbing brushes, nor other hand stuff.
- After cleaning, make sure that the front panel is securely fixed.

Pre start up maintenance

(After extended shutdown)

- Inspect thoroughly and clean indoor and outdoor units.
- Clean or replace air filters.
- Clean condensate drain line.
- Clean clogged indoor and outdoor coils.
- Check fan imbalance before operation.
- Tighten all wiring connections and panels.
- Check for refrigerant leakage.

The design of the A5LC-C outdoor series allows servicing to be carried out readily and easily. The removal of the top/front and back panel make almost every part accessible.



Under normal circumstances, these outdoor units only require a check and cleaning of air intake coil surface once quarterly. However, if a unit is installed in areas subjected to much oil mist and dust, the coils must be regularly cleaned by qualified Air Conditioner Service Technicians to ensure sufficient heat exchange and proper operation. Otherwise, the systems life span may be shortened.



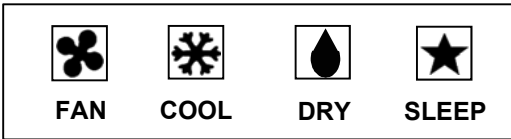
Caution

Do not charge **OXYGEN, ACETYLENE OR OTHER FLAMMABLE** and poisonous gases into the unit when performing a leakage test or an air tight test. These gases could cause severe explosion and damage if expose to high temperature and pressure.





Troubleshooting

Indicator Lights

LED Indicator Light Display - Cooling Only



LED Light Diagnostic Table

 GREEN	 GREEN	 Orange	 RED	Error Code (SLM8)	Operation / Faulty Indication	Action
	○			-	Cooling mode	-
		○		-	Dry mode	-
○				-	Fan mode	-
			○	-	Sleep mode	-
●				E1	Room air sensor contact open / short	Check room sensor connection / change room sensor
●		●		E2	Indoor coil sensor contact open	Check indoor coil sensor connection / change indoor coil sensor
	●			E4	Compressor overload / Indoor coil sensor short / Outdoor coil sensor short	If running ampere highly increase, change the compressor. If not, replace the coil sensor
	●	●		E5	Gas leak	Check for leakage & repair / Top up refrigerant
●	●	●		E8	Hardware error (tact switch pin short)	Replace the tact switch control board
Blink Cool, follow by Fan, Dry						

○ ON

● BLINKING

Phase Sequencer

The unit with Scroll Compressor only can rotate in one direction. For this reason, a protective device (phase sequencer) is fitted to prevent incorrect wiring of the electrical phases. When the three phases are not connected correctly, the phase sequencer operates, and the unit will not start.

This device is located in the control box of the outdoor unit.

The following table shows the LED indicator light for phase sequencer under normal operation and fault conditions.

LED Description	PW (Red)	P_S (Yellow)	P_T (Yellow)	Actions
Normal Operation	○	●	●	-
Reverse Phase	◐	◐	◐	Switch off the unit. Check the 3 phase wiring
T Phase Missing	○	●	◐	Switch off the unit. Check the 3 phase wiring
S Phase Missing	○	◐	●	Switch off the unit. Check the 3 phase wiring
R Phase Missing	◐	●	●	Switch off the unit. Check the 3 phase wiring
R (main power) phase missing	●	●	●	Switch off the unit. Check the 3 phase wiring
Overheat	◐	◐	○	High discharge temperature. Check the refrigerant system.
High Pressure	○	○	●	High discharge pressure. Check the refrigerant system.
Low Pressure	○	●	○	Low suction pressure. Check the refrigerant system.
Sensor missing	◐	◐	●	Switch off the unit. Plug in sensor.

○ ON ● OFF ◐ Fast Blink

Note:

1. “*” indicates additional function for PP01 phase sequencer.
2. When R phase missing, no LED or buzzer will indicate the error, but relay 71 (COMMON) and 81 (NO) will cut off.
3. The unit will check discharge sensor availability only during power up.
4. All errors can only recover through manually reset.

Error Code / Fault Condition

When a malfunction of the air conditioner unit is detected, immediately switch off the main power supply before proceeding with the following troubleshooting procedures.

The following are common fault conditions and simple troubleshooting tips. If any other fault conditions which are not listed occur, contact your nearest local dealer. DO NOT attempt to troubleshoot the unit by yourself.

No	Fault conditions	Possible causes / corrective actions
1	The air conditioner unit will not resume after power failure.	<ul style="list-style-type: none"> The auto restart function is not functioning. Please turn on the unit with the wireless / wired controller.
2	The compressor does not operate 3 minutes after the air conditioner unit is started.	<ul style="list-style-type: none"> Protection against frequent starting. Wait for 3 or 4 minutes for the compressor to start operating by itself.
3	The airflow is too slow or room cannot be cooled sufficiently.	<ul style="list-style-type: none"> The air filter is dirty. The doors and windows are opened. The air suction and discharge of both indoor and outdoor units are clogged or blocked. The regulated temperature or temperature setting is not low enough.
4	Discharge airflow has bad odor.	<ul style="list-style-type: none"> Cigarettes, smoke particles, perfume and others, which might have adhered onto the coil, may cause odor. Contact your nearest dealer.
5	Condensation on the front air grille of the indoor unit.	<ul style="list-style-type: none"> This is caused by air humidity after an extended period of operation. The set temperature is too low. Increase the temperature setting and operate the unit at high fan speed.
6	Water flowing out from the air conditioner.	<ul style="list-style-type: none"> Switch off the unit and contact your nearest dealer. This might be due to tilted installation.
7	Hissing airflow sound from the air conditioner unit during operation.	<ul style="list-style-type: none"> Liquid refrigerant flowing into the evaporator coil.
8	The wireless controller display is dim.	<ul style="list-style-type: none"> The batteries are discharged. The batteries are not correctly inserted. The assembly is not good.
9	Compressor operates continuously.	<ul style="list-style-type: none"> Dirty air filter. Clean the air filter. Temperature setting too low (cooling). Use higher temperature setting. Temperature setting too high (heating). Use lower temperature setting.
10	No cool air comes out during cooling cycle, or no hot air comes out during heating cycle.	<ul style="list-style-type: none"> Temperature setting too high (cooling). Use lower temperature setting. Temperature setting too low (heating). Use higher temperature setting.
11	On heating cycle, warm air does not come out.	<ul style="list-style-type: none"> Unit is in defrost mode. Heating operation will resume after defrost cycle ends.

Diagnostic Guidelines

By means of pressure readings:

Circuit	Data	Pressure					Probable cause
		Too low	A little low	Normal	A little high	Too high	
High side Low side						<ul style="list-style-type: none"> • 1. Overcharged with refrigerant. • 2. Non-condensable gases in refrigerant circuit (e.g. air). 3. Obstructed air-intake / discharge. 4. Hot air short circuiting in outdoor unit. 	
High side Low side	•					<ul style="list-style-type: none"> • 1. Poor compression /no compression (compressor defective) 2. Reversing valve leaking. 	
High side Low side	•		•			<ol style="list-style-type: none"> 1. Undercharged with refrigerant. 2. Refrigerant leakage. 3. Air filter clogged / dirty (indoor unit). 4. Indoor fan locked / seized. 5. Defective defrost control, outdoor coil freeze up (heating). 6. Outdoor fan locked / seized (heating). 	
High side Low side				•	•	<ol style="list-style-type: none"> 1. Outdoor fan blocked (cooling). 2. Outdoor coil dirty (cooling). 3. Indoor fan locked / seized (heating). 4. Indoor air filter clogged / dirty (heating). 5. Non-condensable gases in refrigerant circuit (e.g. air). 	
High side Low side				•	•	<ol style="list-style-type: none"> 1. Air intake temperature of indoor unit too high. 	

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