Submittal Sheet

Submitted for: ☐ Approval ☐ Record

Job Name: _____ Date: _____

Contractor: _____ Location: _____

Engineer: _____ Tag: _____

18-22 SEER PLATINUM SERIES DC INVERTER MINI-SPLIT

Indoor Units:	Outdoor Units:
A22EM4H4R09	**A22CI4H4R09**
A20EM4H4R12	**A20CI4H4R12**
A18EM4H4R18	**A18CI4H4R18**
A18EM4H4R24	**A18CI4H4R24**

Notes: _____

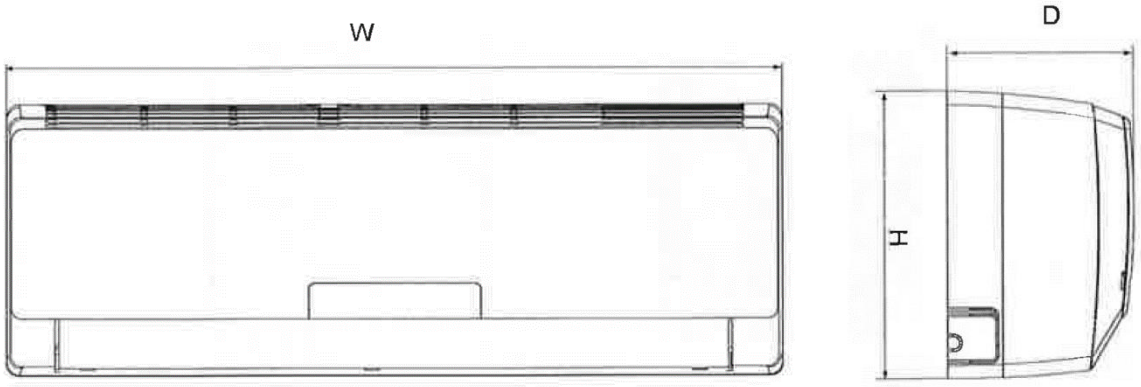
_____

_____

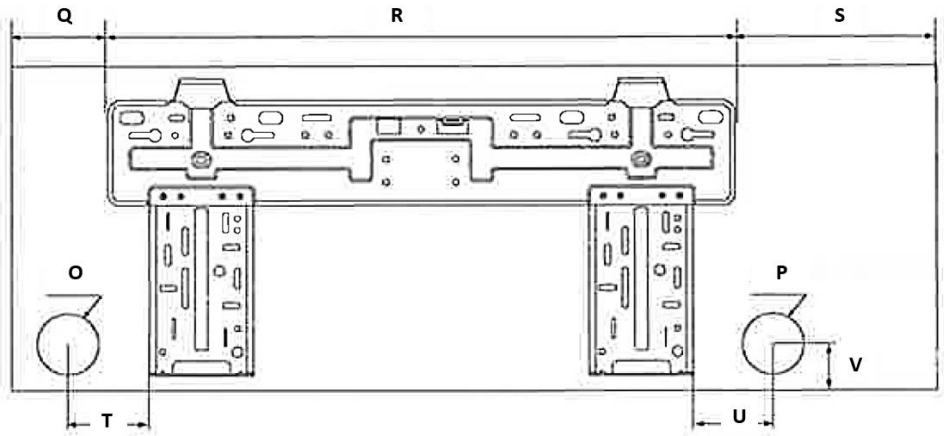
Summary, Features, and Construction Views

Indoor Unit

A22EM4H4R09, A20EM4H4R12, A18EM4H4R18, A18EM4H4R18, & A18EM4H4R24

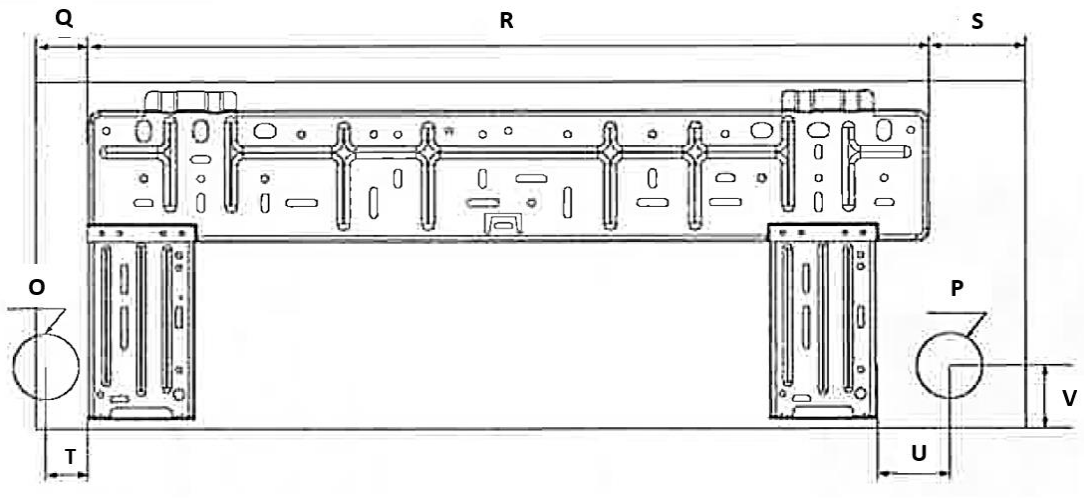


9K and 12K Units Wall Bracket:

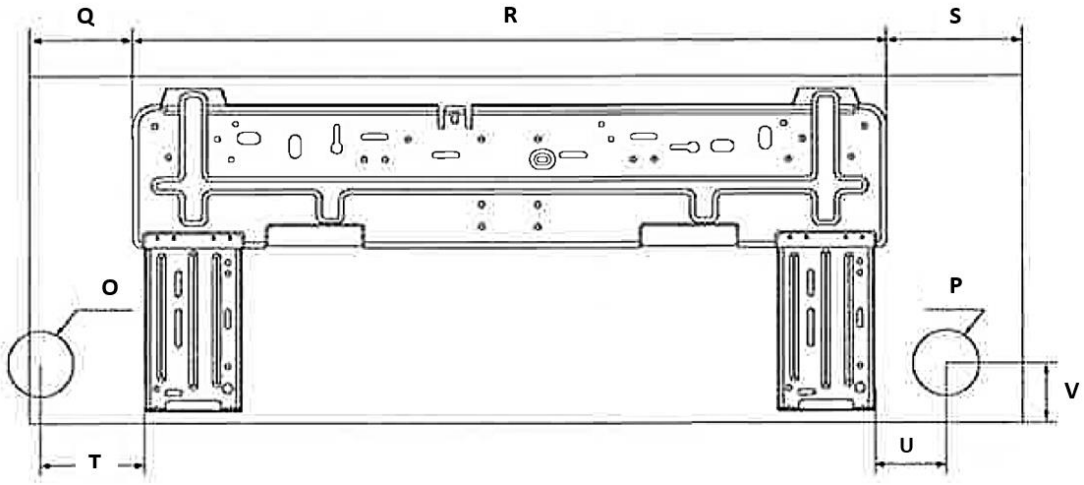


Summary, Features, and Construction Views

18K Unit Wall Bracket:



24K Unit Wall Bracket:

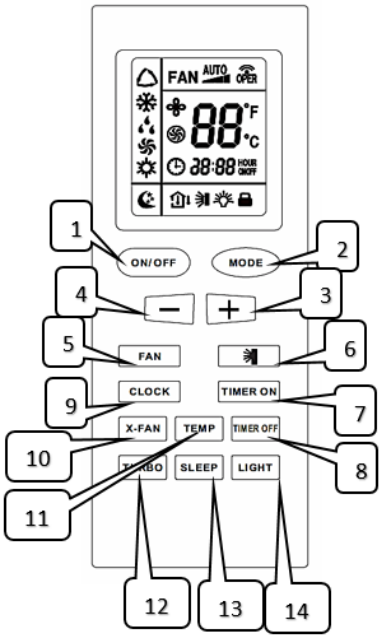


Unit: mm											
Model	W	H	D	O	P	Q	R	S	T	U	V
A22EM4H4R09	845	274	178	56	56	132	541	173	142	79	43
A20EM4H4R12											
A18EM4H4R18	940	297	200	56	56	51	693	196	38	117	46
A18EM4H4R24	1008	315	218	71	71	140	686	183	89	66	46
Unit: Inches											
A22EM4H4R09	33.3	10.8	7.0	2.2	2.2	5.2	21.3	6.8	5.6	3.1	1.7
A20EM4H4R12											
A18EM4H4R18	37.0	11.7	7.9	2.2	2.2	2.0	27.3	7.7	1.5	4.6	1.8
A18EM4H4R24	39.7	12.4	8.6	2.8	2.8	5.5	27.0	7.2	3.5	2.6	1.8

***True dimensions in inches**

Summary, Features, and Construction Views

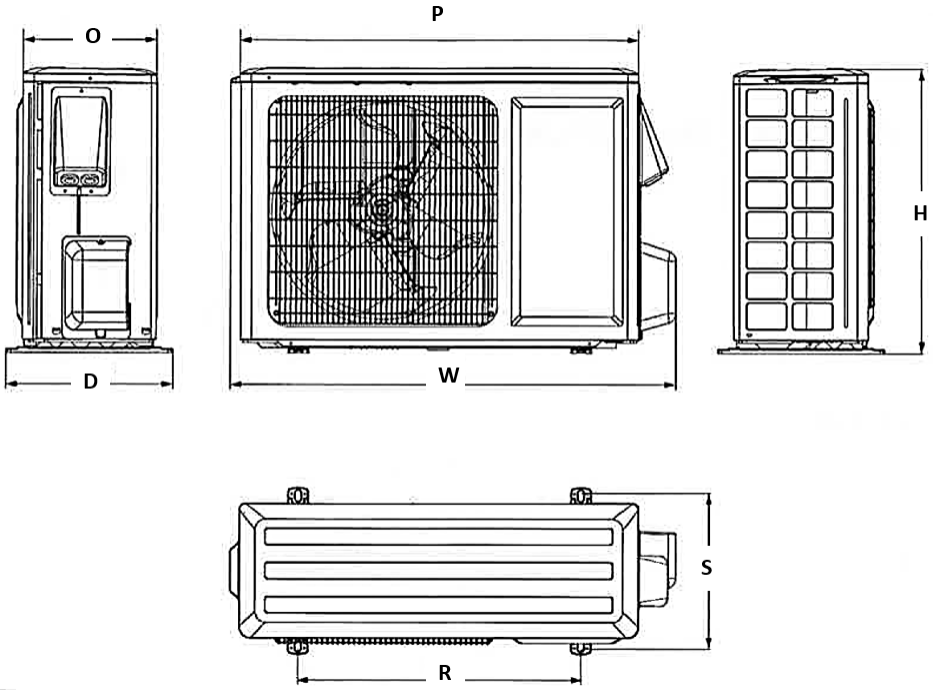
Remote Controller



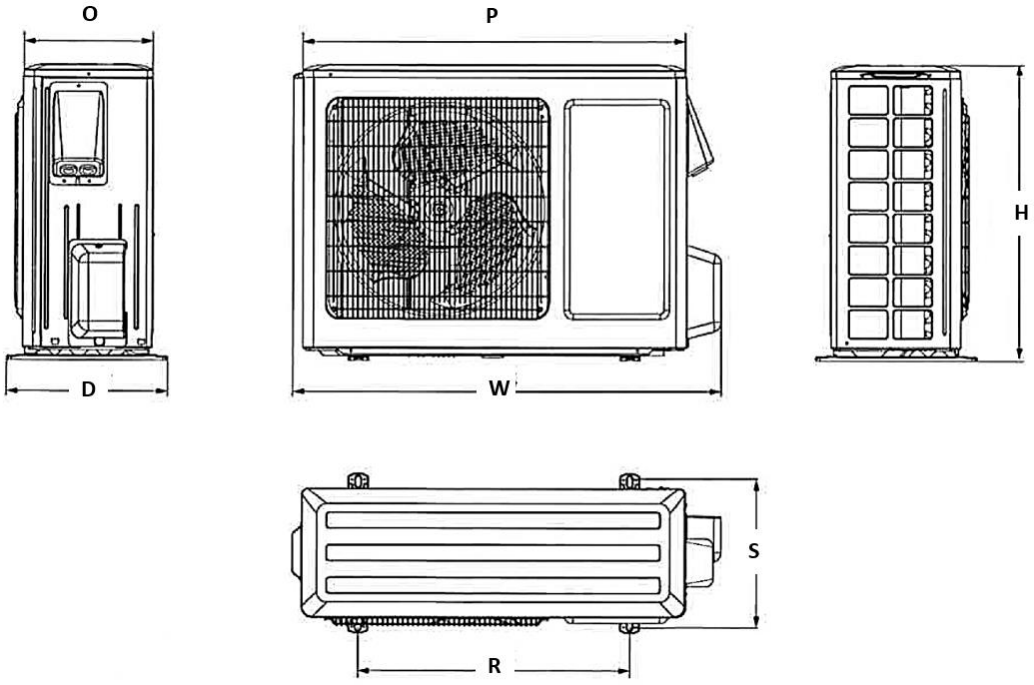
1	ON/OFF-Press to Start/Stop Operation
2	MODE-Press to select operation mode (AUTO/COOL/DRY/FAN/HEAT)
3	+ Press to increase temperature setting
4	- Press to decrease temperature setting
5	FAN- Press to set fan speed
6	Press to set swing angle
7	TIMER ON-Press to set timer on
8	TIMER OFF-Press to set timer off
9	CLOCK-Press to set clock
10	X-FAN- (X-FAN is the alternative expression of BLOW for the purpose of understanding)
11	TEMP
12	TURBO
13	SLEEP
14	LIGHT-Press to turn on or off controller backlight

Outdoor Unit

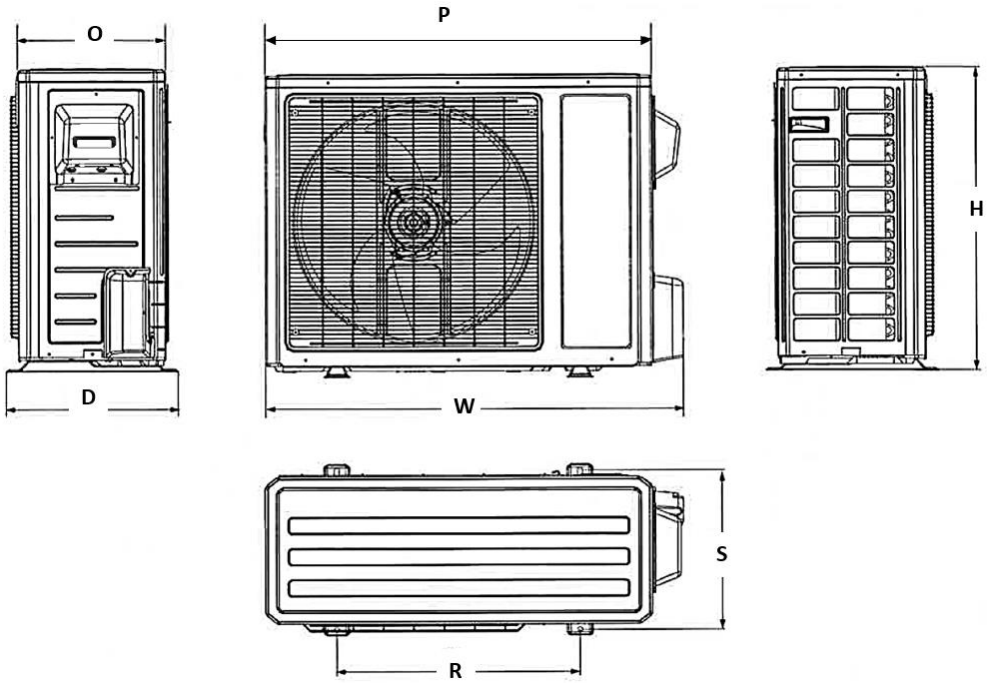
A22CI4H4R09



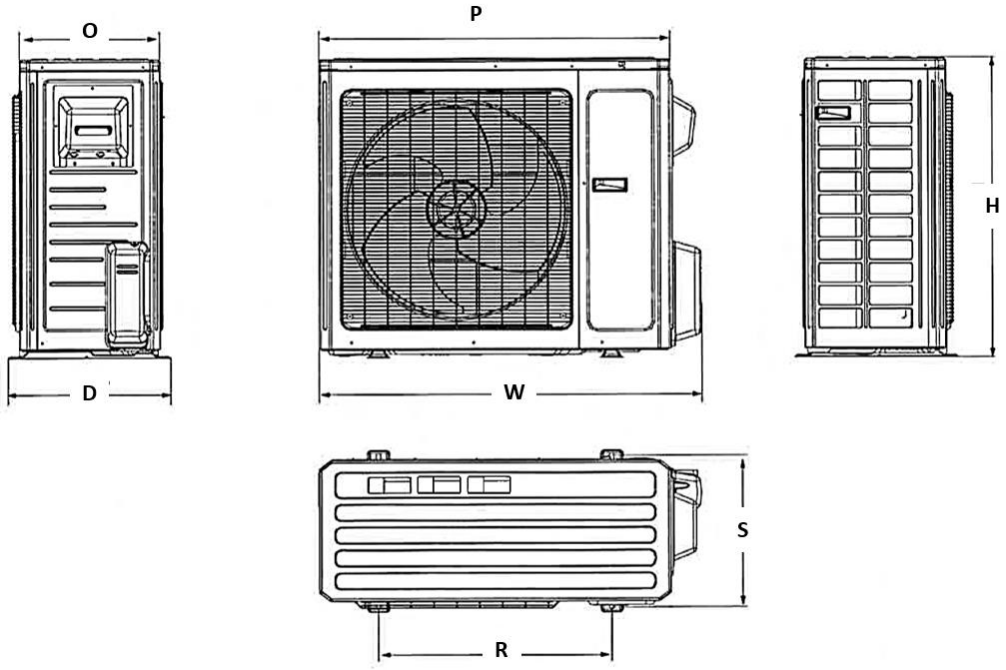
A20CI4H4R12



A18CI4H4R18



A18CI4H4R24



Unit: mm							
Model	W	H	D	O	P	R	S
A22CI4H4R09	848	538	320	254	762	541	287
A20CI4H4R12	848	589	320	254	762	541	287
A18CI4H4R18	955	701	396	340	889	559	368
A18CI4H4R24	980	790	427	371	914	610	399
Unit: Inches							
A22CI4H4R09	33.4	21.2	12.6	10.0	30.0	21.3	11.3
A20CI4H4R12	33.4	23.2	12.6	10.0	30.0	21.3	11.3
A18CI4H4R18	37.6	27.6	15.6	13.4	35.0	22.0	14.5
A18CI4H4R24	38.6	31.1	16.8	14.6	36.0	24.0	15.7

***True dimensions in inches**

Specifications

Parameter			Unit	Value	
Model				A22EM4H4R09/A22CI4H4R09	A20EM4H4R12/A20CI4H4R12
Product Code				CB181005400_K89515	CB181003600_K89515
Power Supply		Rated Voltage	V~	208/230	208/230
		Rated Frequency	Hz	60	60
		Phases		1	1
Power Supply Mode				Outdoor	Outdoor
Cooling Capacity (Min~Max)			Btu/h	9000(3500~9600)	12000(3100~13000)
Heating Capacity (Min~Max)			Btu/h	9800(2200~11000)	13000(2400~14000)
Cooling Power Input			W	620(370~1075)	1000(365~1080)
Heating Power Input			W	750(200~900)	1200(340~1360)
Cooling Current Input			A	2.8	4.5
Heating Current Input			A	3.04	5.2
Rated Input			W	1430	1500
Rated Current			A	7.0	7.2
Air Flow Volume (SH/H/M/L/SL)			CFM	306/277/253/218/-	335/277/253/218/-
			m^3/h	520/470/430/370	569/470/430/370/-
Dehumidifying Volume			Pint/h	2.54	2.959
			L/h		
EER			Btu/Wh	14.2	12.0
COP			Btu/Wh	14.0	10.8
SEER				22.0	20.0
HSPF				9.2	9.2
Application Area			ft^2	130-194	172-258
			m^2	12-18	16-24
Indoor Unit	Indoor Unit Model			A22EM4H4R09	A20EM4H4R12
	Indoor Unit Product Code			CB181N05400_K89515	CB181N03600_K89515
	Fan Type			Cross-flow	Cross-flow
	Fan Diameter Length (DXL)		inch	Φ 3.6X25.4	Φ 3.6X25.4
			mm	Φ 91 X 645	Φ 91 X 645
	Cooling Speed (SH/H/M/L/SL)		r/min	1260/1100/950/750/-	1330/1100/950/750/-
	Heating Speed (SH/H/M/L/SL)		r/min	1320/1200/1100/950/-	1350/1170/1050/950/-
	Fan Motor Power Output		W	20	20
	Fan Motor RLA		A	0.20	0.2
	Fan Motor Capacitor		μF	1	1
	Evaporator Form			Aluminum Fin-copper tube	Aluminum Fin-copper tube

	Evaporator Pipe Diameter	Inch	Φ0.27	Φ0.27
		mm	Φ6.86	Φ6.86
	Evaporator Row-fin Gap	Inch	2-0.05	2-0.05
		mm	50.8-1.27	50.8-1.27
	Evaporator Coil Length (LXDXW)	Inch	22.8X1X10.4	22.8X1X10.4
		mm	579X25.4X264	579X25.4X264
	Swing Motor Model		MP24AA	MP24AA
	Swing Motor Power Output	W	2	2
	Fuse Current	A	3.15	3.15
	Sound Pressure Level (SH/H/M/L/SL)	dB(A)	42/38/35/32/-	44/39/36/33/-
	Sound Power Level (SH/H/M/L/SL)	dB(A)	52/48/45/42/-	54/49/46/43/-
	Dimension (WXHXD)	inch	33.3X10.8X7	33.3X10.8X7
		mm	846X274X178	846X274X178
	Dimension of Carton Box (LXWXH)	inch	36X10X14	36X10X14
		mm	914X254X356	914X254X356
	Dimension of Package (LXWXH)	Inch	36.1X10.2X14.6	36.1X10.2X14.6
		mm	917X259X371	917X259X371
	Net Weight	lb	22	22
		kg	9.98	9.98
	Gross Weight	lb	28.7	28.7
		kg	13	13
Outdoor Unit	Outdoor Unit Model		ACZCI4H4R09	ACZCI4H4R12
	Outdoor Unit Product Code		CB171W04500_K89515	CB171W04600_K89515
	Compressor Manufacturer		MITSUBISHI ELECTRIC (GUANGZHOU) COMPRESSOR CO. LTD	MITSUBISHI ELECTRIC (GUANGZHOU) COMPRESSOR CO. LTD
	Compressor Model		KNB092FTAMC	KNB092FTAMC
	Compressor Oil		FV50S	FV50S
	Compressor Type		Rotary	Rotary
	L.R.A.	A	/	/
	Compressor RLA	A	3.2	3.2
	Compressor Power Input	W	860	860
	Compressor Overload Protector		1NT11L-6578	1NT11L-6578
	Throttling Method		Electronic Expansion Valve	Electronic Expansion Valve
	Set Temperature Range	°F	61~86	61~86
		°C	16~30	16~30
	Ambient Temperature (Cooling)	°C	-17~42	-17~42
		°F	0.4~109	0.4~109

	Ambient Temperature (Heating)	°C	-20~23	-20~23
		°F	-5~75	-5~75
	Condenser Form		Aluminum fin-copper tube	Aluminum fin-copper tube
	Condenser Pipe diameter	mm	Φ9.52	Φ9.52
		in	Φ3/8	Φ3/8
	Condenser Rows-fin gap	mm	50.8-1.27	50.8-1.27
		in	2-0.05	2-0.05
	Condenser Coil Length (LXDXW)	mm	746X43X508	746X43X508
		in	29.4X1.7X20	29.4X1.7X20
	Fan Motor Speed	RPM	680/900	680/900
	Output of Fan Motor	W	30	30
	Fan Motor RLA	A	0.13	0.13
	Fan Motor Capacitor	μF	/	/
	Air Flow Volume of Outdoor Unit	m^3/h	1600	1600
		CFM	941.6	941.6
	Fan Type		Axial-flow	Axial-flow
	Fan Diameter	mm	Φ400	Φ400
		in	Φ 15.748	Φ15.748
	Defrosting Method		Automatic Defrosting	Automatic Defrosting
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	3.8	3.8
		PSI	550	550
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	1.65	1.65
		PSI	240	240
	Sound Pressure Level (H/M/L)	dB(A)	50/-/-	52/-/-
	Sound Power Level (H/M/L)	dB(A)	60/-/-	62/-/-
	Dimension (WXHXD)	mm	848X538X320	848X589X320
		in	33.4X21.2X12.6	33.4X23.2X12.6
	Dimension of Carton Box (L/W/H)	mm	876X360X579	876X360X630
		in	34.5X14.2X22.8	34.5X14.2X24.8
	Dimension of Package (L/W/H)	mm	881X363X594	881X363X645
		in	34.7X14.3X23.4	34.7X14.3X25.4
	Net Weight	kg	36	40
		Lbs	79.38	88.2

	Gross Weight	kg	41	44
		Lbs	90.405	97.02
	Refrigerant		R410A	R410A
	Refrigerant Charge	grams	1300	1300
		oz	45.864	45.864
	Electric Breaker		2-Pole 20A	2-Pole 20A
Connection Pipe	Length	m	7.62	7.62
		ft	25	25
	Gas Additional Charge	g/m	65.1	65.1
		oz/ft	0.7	0.7
	Outer Diameter Liquid Pipe	mm	6.35	6.35
		in	¼	¼
	Outer Diameter Gas Pipe	mm	9.525	9.525
		in	3/8	3/8
	Max Distance Height	m	10	10
		ft	33	33
	Max Distance Length	m	15.24	20.11
		ft	50	66

Parameter		Unit	Value	
Model			A18EM4H4R18/A18CI4H4R18	A18EM4H4R24/A18CI4H4R24
Product Code			CB181003700_K89515	CB181005500_K89515
Power Supply	Rated Voltage	V~	208/230	208/230
	Rated Frequency	Hz	60	60
	Phases		1	1
Power Supply Mode			Outdoor	Outdoor
Cooling Capacity (Min~Max)		Btu/h	18000(5970~22350)	21400(9600~25000)
Heating Capacity (Min~Max)		Btu/h	19800(4100~22000)	23000(4300~26000)
Cooling Power Input		W	1500(300~2650)	1780(500~2650)
Heating Power Input		W	1650(335~2750)	2100(400~2750)
Cooling Current Input		A	6.65	7.941
Heating Current Input		A	7.32	9.317
Rated Input		W	2750	2750
Rated Current		A	12.201	12.201
Air Flow Volume (SH/H/M/L/SL)		CFM	500/459/383/324	589/471/412/353
		m^3/h	850/780/650/550	1000/800/700/600
Dehumidifying Volume		Pint/h	0.852	1.183
		L/h	0.4	0.56
EER		Btu/Wh	12	12
COP		Btu/Wh	12	12
SEER			18	18
HSPF			10	10
Application Area		ft^2	290-452	290-452
		m^2	27-42	27-42
Indoor Unit	Indoor Unit Model		A18EM4H4R18	A18EM4H4R24
	Indoor Unit Product Code		CB181N03700_K89515	CB181N05500_K89515
	Fan Type		Cross-flow	Cross-flow

	Fan Diameter Length (DXL)	inch	Φ3.86X28	Φ3.86X30
		mm	Φ 98X711	Φ98X762
	Cooling Speed (SH/H/M/L/SL)	r/min	1500/1200/1050/900	1500/1200/1050/900
	Heating Speed (SH/H/M/L/SL)	r/min	1500/1250/1150/1050	1450/1150/1020/950
	Fan Motor Power Output	W	20	60
	Fan Motor RLA	A	0.32	0.24
	Fan Motor Capacitor	μF	1.5	/
	Evaporator Form		Aluminum Fin-copper tube	Aluminum Fin-copper tube
	Evaporator Pipe Diameter	Inch	Φ0.27	Φ0.27
		mm	Φ6.858	Φ6.858
	Evaporator Row-fin Gap	Inch	2-0.05	2-0.06
		mm	50.8-1.27	50.8-1.52
	Evaporator Coil Length (LXDXW)	Inch	28X1X12	30X1X15.5
		mm	711X25.4X304.8	762X25.4X394
	Swing Motor Model		MP28VB	MP35XX
	Swing Motor Power Output	W	2.5	3
	Fuse Current	A	3.15	3.15
	Sound Pressure Level (SH/H/M/L/SL)	dB(A)	49/44/40/35	53/45/41/37
	Sound Power Level (SH/H/M/L/SL)	dB(A)	59/54/50/45	63/55/51/47
	Dimension (WXHXD)	inch	37X11.7X7.9	39.7X12.4X8.6
		mm	940X297X201	1008X315X218
	Dimension of Carton Box (LXWXH)	inch	39.6X11.1X14.4	42.2X15.5X12.3
		mm	1006X282X365	1072X394X312
	Dimension of Package (LXWXH)	Inch	39.7X11.2X15	42.4X15.7X12.9
		mm	1008X284X381	1077X399X327
	Net Weight	lb	28.665	35.28
		kg	13	16
	Gross Weight	lb	37.485	46.305
		kg	17	21
Outdoor Unit	Outdoor Unit Model		A18CI4H4R18	A18CI4H4R24
	Outdoor Unit Product Code		CB171W04700_K89515	CB171W07000_K89515
	Compressor Manufacturer		MITSUBISHI ELECTRIC (GUANGZHOU) COMPRESSOR CO. LTD	MITSUBISHI ELECTRIC (GUANGZHOU) COMPRESSOR CO. LTD
	Compressor Model		SNB130FGAMC	SNB150FGAMC
	Compressor Oil		FV50S/PVE	FV50S/PVE
	Compressor Type		Rotary	Rotary

	L.R.A.	A	13.8	18.5
	Compressor RLA	A	4.1	4.9
	Compressor Power Input	W	1200	1420
	Compressor Overload Protector		1NT11L-6578	1NT11L-6578
	Throttling Method		Electronic Expansion Valve	Electronic Expansion Valve
	Set Temperature Range	°F	61~89	61~86
		°C	16~31	16~30
	Ambient Temperature (Cooling)	°F	19~109	19~109
		°C	-7~42	-7~42
	Ambient Temperature (Heating)	°F	19~75	19~75
		°C	-7~23	-7~23
	Condenser Form		Aluminum fin-copper tube	Aluminum fin-copper tube
	Condenser Pipe diameter	mm	Φ6.85	Φ6.85
		in	Φ0.27	Φ0.27
	Condenser Rows-fin gap	mm	50.8-1.27	50.8-1.27
		in	2-0.05	2-0.05
	Condenser Coil Length (LXDXW)	mm	838X38X660	965X38X736
		in	33X1.5X26	38X1.5X29
	Fan Motor Speed	RPM	800	800
	Output of Fan Motor	W	60	90
	Fan Motor RLA	A	0.28	1.1
	Fan Motor Capacitor	μF	/	4
	Air Flow Volume of Outdoor Unit	m^3/h	3200	4000
		CFM	1883.2	2354
	Fan Type		Axial-flow	Axial-flow
	Fan Diameter	mm	Φ520	Φ552
		in	Φ 20.472	Φ21.732
	Defrosting Method		Automatic Defrosting	Automatic Defrosting
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	3.8	3.8
		PSI	550	550
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	1.65	1.65
		PSI	240	240

	Sound Pressure Level (H/M/L)	dB(A)	56/-/-	58/-/-
	Sound Power Level (H/M/L)	dB(A)	66/-/-	68/-/-
	Dimension (WXHXD)	mm	955X701X396	980X790X426
		in	37.6X27.6X15.6	38.6X31.1X16.8
	Dimension of Carton Box (L/W/H)	mm	1026X457X736	1079X482X838
		in	40.4X18X29	42.5X19X33
	Dimension of Package (L/W/H)	mm	1028X457X749	1082X487X856
		in	40.5X18X29.5	42.6X19.2X33.7
	Net Weight	kg	45	55
		Lbs	99.225	121.275
	Gross Weight	kg	50	61
		Lbs	110.25	134.505
	Refrigerant		R410A	R410A
	Refrigerant Charge	grams	1400	1600
		oz	49.392	56.448
	Electric Breaker		2-Pole 20A	2-Pole 20A
Connection Pipe	Length	m	7.62	7.62
		ft	25	25
	Gas Additional Charge	g/m	18.6	46.5
		oz/ft	0.2	0.5
	Outer Diameter Liquid Pipe	mm	6.35	6.35
		in	¼	¼
	Outer Diameter Gas Pipe	mm	12.7	15.875
		in	½	5/8
	Max Distance Height	m	10	10
		ft	33	33
	Max Distance Length	m	25	25
		ft	82	82

AHRI Certifications and SEER Rating

Indoor unit model	**Outdoor unit model**	**AHRI Certification Reference Number**	**Date**	**Rated Capacity (Btu/h)**	**SEER (Cooling) Btu/Wh**	**EER (Cooling) Btu/Wh**
A22EM4H4R09	A22CI4H4R09	5620400	6/16/2014	9000	22	14.2
A20EM4H4R12	A20CI4H4R12	5620401	6/16/2014	12000	20	12
A18EM4H4R18	A18CI4H4R18	5620402	6/16/2014	18000	18	12
A18EM4H4R24	A18CI4H4R24	5620403	6/16/2014	21400	18	12