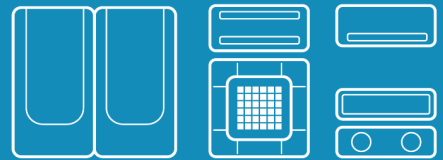


# RAC

## Technical Data Book

RAC for North America (Inv, R410A, 60Hz, HP)



Model : AR09/12JSALBWKNCV  
AR09/12JSALBWKXCV  
AR09/12/18/24JSFLBWKNCV  
AR09/12/18/24JSFLBWKXCV

# History

Version	Modification	Date	Remark
1	Release RAC TDB for North America	16.03.24	

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# Nomenclature

## Indoor Units

### Model Names

<b>AR</b>	<b>09</b>	<b>J</b>	<b>S</b>	<b>A</b>	<b>L</b>	<b>B</b>	<b>WK</b>	<b>N</b>	/	<b>CV</b>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		Buyer

### (1) Classification

AR	RAC
AF	FAC/PAC

### (2) Capacity

	x 1000 Btu/h
--	--------------

### (3) Year

F	2013
H	2014
J	2015
K	2016

### (4) Product Type

R	On/Off R410A CO
Q	On/Off R410A HP
V	INVERTER R410A CO
S	INVERTER R410A HP

### (5)

F	208~230V, 60Hz, 1Φ, No Virus Doctor
S	208~230V, 60Hz, 1Φ, Virus Doctor
A	115V, 60Hz, 1Φ, No Virus Doctor
Z	115V, 60Hz, 1Φ, Virus Doctor

### (6) Design Segment

L	AR3000
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### (7) Version

	A - Z (1 digit)
--	-----------------

### (8) Color

WK	Twilight White
UR	Blue
GM	Gray

### (9) Set

N	Indoor Unit
X	Outdoor Unit

# Nomenclature

## Outdoor Units

### Model Names

<b>AR</b>	<b>09</b>	<b>J</b>	<b>S</b>	<b>A</b>	<b>L</b>	<b>B</b>	<b>WK</b>	<b>X</b>	/	<b>CV</b>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		Buyer

### (1) Classification

AR	RAC
AF	FAC/PAC

### (2) Capacity

x 1000 Btu/h
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### (3) Year

F	2013
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### (4) Product Type

R	On/Off R410A CO
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V	INVERTER R410A CO
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### (5)

F	208~230V, 60Hz, 1Φ, No Virus Doctor
S	208~230V, 60Hz, 1Φ, Virus Doctor
A	115V, 60Hz, 1Φ, No Virus Doctor
Z	115V, 60Hz, 1Φ, Virus Doctor

### (6) Design Segment

L	AR3000
---	--------

### (7) Version

A - Z (1 digit)
-----------------

### (8) Color

WK	Twilight White
UR	Blue
GM	Gray

### (9) Set

N	Indoor Unit
X	Outdoor Unit

# 2 Specifications

## Inverter(HP)

Type				Inverter(HP)	Inverter(HP)	Inverter(HP)			
Model Name	Indoor Unit			AR09JSALBWKNCV	AR09JSFLBWKNCV	AR12JSALBWKNCV			
	Outdoor Unit			AR09JSALBWKXCV	AR09JSFLBWKXCV	AR12JSALBWKXCV			
System	Mode			----			----		
	Capacity	Cooling(Min/Std/Max)		kW	1.47 / 2.64 / 3.66	1.47 / 2.64 / 3.66	1.47 / 3.52 / 4.25		
				Btu/h	5,000 / 9,000 / 12,500	5,000 / 9,000 / 12,500	5,000 / 12,000 / 14,500		
				US RT	0.42 / 0.75 / 1.04	0.42 / 0.75 / 1.04	0.42 / 1.00 / 1.21		
		Heating(Min/Std/Max)		kW	1.23 / 2.64 / 3.96	1.23 / 2.64 / 3.96	1.23 / 3.52 / 4.84		
				Btu/h	4,200 / 9,000 / 13,500	4,200 / 9,000 / 13,500	4,200 / 12,000 / 16,500		
				US RT	0.35 / 0.75 / 1.13	0.35 / 0.75 / 1.13	0.35 / 1.00 / 1.38		
	Power	Power Input (Nominal)		kW	Cooling(Min/Std/Max)	0.45 / 0.71 / 1.30	0.45 / 0.71 / 1.30	0.47 / 0.95 / 1.45	
					Heating(Min/Std/Max)	0.50 / 0.71 / 1.35	0.42 / 0.71 / 1.35	0.52 / 1.04 / 1.90	
		Current Input (Nominal)		A	Cooling(Min/Std/Max)	4.00 / 6.20 / 11.60	2.60 / 3.90 / 5.70	4.10 / 8.30 / 12.70	
					Heating(Min/Std/Max)	4.40 / 6.20 / 12.00	2.40 / 3.90 / 5.90	4.60 / 9.50 / 16.70	
		MCA		A	16.00 (MCA)	10.00 (MCA)	19.00 (MCA)		
		MFA		A	25.00	15.00	30.00		
	Energy Efficiency	EER (Nominal Cooling)		-	3.72	3.72	3.71		
		EER (Nominal Cooling, US)		Btu/Wh	12.70	12.70	12.70		
		COP (Nominal Heating)		-	3.72	3.72	3.38		
		Energy Grade		Energy	SEER 20	SEER 20	SEER 20		
				Energy	HSPF 9	HSPF 9	HSPF 9		
	Piping Connections	Liquid Pipe		Ø, mm	6.35	6.35	6.35		
				Ø, inch	1/4"	1/4"	1/4"		
		Gas Pipe		Ø, mm	9.52	9.52	9.52		
				Ø, inch	3/8"	3/8"	3/8"		
		Installation Limitation		Max. Length	m	15	15	15	
					ft	49	49	49	
				Max. Height	m	5	5	5	
					ft	16	16	16	
		Field Wiring	Power Source Wire		Ø, mm	-	-	-	
Transmission Cable			Ø, mm	-	-	-			
Refrigerant	Type		-	R410A	R410A	R410A			
	Control Method		-	-	-	-			
	Factory Charging		kg	0.95	0.95	1.15			
lbs			2.09	2.09	2.54				
Indoor Unit	Power Supply			Ø, #, V, Hz	1,2,115,60	1,2,208-230,60	1,2,115,60		
	Type			-	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan		
	Fan	Motor		Output	W	25 x 1	18 x 1	25 x 1	
		Air Flow Rate		High/Mid/Low	CFM	388.48 / 317.84 / 247.21	388.48 / 317.84 / 247.21	423.79 / 353.16 / 282.53	
		External Static Pressure		Min/Std/Max	Pa	-	-	-	
					In Wq	-	-	-	
	Drain Pipe		Ø,mm	ID16 HOSE	ID16 HOSE	ID16 HOSE			
	Sound	Pressure	High/Mid/Low	dB(A)	44 / 29	44 / 29	45 / 34		
			Power	Cooling	-	-	-		
	External Dimension	Net Weight		kg	8.10	8.10	9.30		
				lbs	17.86	17.86	20.50		
		Shipping Weight		kg	10.80	10.80	12.20		
				lbs	23.81	23.81	26.90		
		Net Dimensions (WxHxD)		mm	800 x 280 x 210	800 x 280 x 210	898 x 280 x 226		
				inch	31.50 x 11.02 x 8.27	31.50 x 11.02 x 8.27	35.35 x 11.02 x 8.90		
	Shipping Dimensions (WxHxD)		mm	885 x 278 x 336	885 x 278 x 336	985 x 298 x 365			
			inch	34.84 x 10.94 x 13.23	34.84 x 10.94 x 13.23	38.78 x 11.73 x 14.37			
	Panel Size	Panel model		-	-	-	-		
		Panel Net Weight		kg	-	-	-		
				lbs	-	-	-		
		Shipping Weight		kg	-	-	-		
				lbs	-	-	-		
		Net Dimensions (WxHxD)		mm	-	-	-		
	inch			-	-	-			
	Shipping Dimensions (WxHxD)		mm	-	-	-			
			inch	-	-	-			
	Additional Accessories	Drain pump		Drain pump	-	-	-		
Air Filter		Max. Lifting	mm/liter/h	-	-				
Outdoor Unit	Power Supply			Ø, #, V, Hz	1,2,115,60	1,2,208-230,60	1,2,115,60		
	Type			-	Rotary	Rotary	Rotary		
	Model			-	ASN98D32UEZ	ASN98D32UEZ	ASD102UKTA7JT		
	Output			kW	0.74	0.74	0.86		
	Oil			Type	ESTER OIL VG74	ESTER OIL VG74	α68HES-H		
	Air Flow Rate			Cooling	CFM	1,024.16	1,342.01		
	Sound	Pressure	Cooling/Heating	dB(A)	53	53	59		
			Power	Cooling	-	-	-		
	External Dimension	Net Weight		kg	30.00	29.50	36.60		
				lbs	66.14	65.04	80.69		
		Shipping Weight		kg	33.40	32.50	40.60		
				lbs	73.63	71.65	89.51		
		Net Dimensions (WxHxD)		mm	703 x 561 x 261	703 x 561 x 261	780 x 610 x 298		
				inch	27.68 x 22.09 x 10.28	27.68 x 22.09 x 10.28	30.71 x 24.02 x 11.73		
	Shipping Dimensions (WxHxD)		mm	803 x 600 x 361	803 x 600 x 361	883 x 653 x 412			
			inch	31.61 x 23.62 x 14.21	31.61 x 23.62 x 14.21	34.76 x 25.71 x 16.22			
	Operating Temp.	Cooling		°F	14.0 ~ 114.8	14.0 ~ 114.8	14.0 ~ 114.8		
		Heating		°F	5.0 ~ 75.2	5.0 ~ 75.2	5.0 ~ 75.2		

\* Specifications may be subject to change without prior notice.

1) Nominal capacity are based on (Refrigerant Piping : 16.4ft , Level Differences : 0ft);

.Cooling : Indoor temperature : 80°F DB, 67°F WB / Outdoor temperature : 95°F DB, 75°F WB

.Heating : Indoor temperature : 70°F DB, 60°F WB / Outdoor temperature : 47°F DB, 43°F WB

2) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

# 2 Specifications

## Inverter(HP)

Type			Inverter(HP)		Inverter(HP)		Inverter(HP)		
Model Name	Indoor Unit		AR12JSFLBWKNCV		AR18JSFLBWKNCV		AR24JSFLBWKNCV		
	Outdoor Unit		AR12JSFLBWKXCV		AR18JSFLBWKXCV		AR24JSFLBWKXCV		
System	Mode			----		----		----	
		Capacity	Cooling(Min/Std/Max)	kW	1.47 / 3.52 / 4.25	2.49 / 5.28 / 5.86	2.93 / 6.45 / 7.91		
	Btu/h			5,000 / 12,000 / 14,500	8,500 / 18,000 / 20,000	10,000 / 22,000 / 27,000			
	US RT			0.42 / 1.00 / 1.21	0.71 / 1.50 / 1.67	0.86 / 1.83 / 2.25			
	Heating(Min/Std/Max)		kW	1.23 / 3.52 / 4.84	2.05 / 5.57 / 7.03	2.78 / 7.03 / 9.09			
			Btu/h	4,200 / 12,000 / 16,500	7,000 / 19,000 / 24,000	9,500 / 24,000 / 31,000			
			US RT	0.35 / 1.00 / 1.38	0.58 / 1.58 / 2.00	0.79 / 2.00 / 2.58			
	Power	Power Input (Nominal)	Cooling(Min/Std/Max) Heating(Min/Std/Max)	kW	0.47 / 0.95 / 1.45 0.52 / 1.04 / 1.90	0.66 / 1.50 / 2.00 0.65 / 1.70 / 2.84	0.78 / 1.90 / 3.20 0.86 / 2.15 / 3.50		
				Current Input (Nominal)	Cooling(Min/Std/Max) Heating(Min/Std/Max)	A	2.70 / 5.20 / 6.40 3.00 / 5.80 / 8.30	3.30 / 8.10 / 8.90 3.30 / 9.10 / 12.60	3.90 / 10.10 / 14.20 4.20 / 11.40 / 15.50
		MCA		A	11.00 (MCA)	15.00 (MCA)	22.00 (MCA)		
		MFA		A	15.00	25.00	30.00		
		Energy Efficiency	EER (Nominal Cooling)		-	3.71	3.52	3.39	
			EER (Nominal Cooling, US)		Btu/Wh	12.70	12.00	11.60	
	COP (Nominal Heating)		-	3.38	3.28	3.27			
	Energy Grade		Energy	SEER 20	SEER 20	SEER 20			
	Piping Connections	Liquid Pipe	Ø, mm		6.35	6.35	9.52		
			Ø, inch		1/4"	1/4"	3/8"		
			Gas Pipe	Ø, mm		9.52	12.70	15.88	
				Ø, inch		3/8"	1/2"	5/8"	
		Installation Limitation	Max. Length	m	15	15	15		
				ft	49	49	49		
			Max. Height	m	5	5	5		
				ft	16	16	16		
		Field Wiring	Power Source Wire		Ø, mm	-	-	-	
Transmission Cable			Ø, mm	-	-	-			
Refrigerant	Type		-	R410A	R410A	R410A			
	Control Method		-	-	-	-			
	Factory Charging		kg	1.15	1.75	2.15			
			lbs	2.54	3.86	4.74			
Indoor Unit	Power Supply		Ø, #, V, Hz	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60			
	Fan	Type		-	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan		
		Motor	Output		W	20 x 1	45 x 1	45 x 1	
			Air Flow Rate	High/Mid/Low	CFM	423.79 / 353.16 / 282.53	635.69 / 529.74 / 459.11	812.27 / 635.69 / 565.06	
		External Static Pressure		Min/Std/Max	Pa	-	-	-	
	In Wq		-	-	-	-			
	Drain Pipe		Ø,mm	ID16 HOSE	ID16 HOSE	ID16 HOSE			
	Sound	Pressure	High/Mid/Low	dB(A)	45 / 34	53 / 40	52 / 40		
			Power	Cooling	-	-	-		
	External Dimension	Net Weight		kg	9.30	12.50	16.50		
		lbs		20.50	27.56	36.38			
		Shipping Weight		kg	12.20	15.50	20.50		
		lbs		26.90	34.17	45.19			
		Net Dimensions (WxHxD)		mm	898 x 280 x 226	1,036 x 315 x 212	1,186 x 340 x 267		
		inch		35.35 x 11.02 x 8.90	40.79 x 12.40 x 8.35	46.69 x 13.39 x 10.51			
	Shipping Dimensions (WxHxD)		mm	985 x 298 x 365	1,103 x 300 x 400	1,265 x 338 x 415			
	inch		38.78 x 11.73 x 14.37	43.43 x 11.81 x 15.75	49.80 x 13.31 x 16.34				
	Panel Size	Panel model		-	-	-	-		
		Panel Net Weight		kg	-	-	-		
		lbs		-	-	-	-		
		Shipping Weight		kg	-	-	-		
		lbs		-	-	-	-		
		Net Dimensions (WxHxD)		mm	-	-	-		
	inch		-	-	-	-			
Shipping Dimensions (WxHxD)		mm	-	-	-				
inch		-	-	-	-				
Additional Accessories	Drain pump	Drain pump	mm/liter/h	-	-	-			
		Max. Lifting	-	-	-				
Air Filter		-	-	-	-				
Outdoor Unit	Power Supply		Ø, #, V, Hz	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60			
	Compressor	Type		-	Rotary	Rotary			
		Model		-	ASD102UKTA7JT	DA150S1C-20FZ	DA200S2C-10MT		
		Output		kW	0.86	1.14	1.73		
	Fan	Oil	Type	-	α68HEs-H	ESTER OIL VG74	ESTER OIL VG74		
			Air Flow Rate	Cooling	CFM	1,342.01	2,048.33	2,154.28	
	Sound	Pressure	Cooling/Heating	dB(A)	59	60	61		
			Power	Cooling	-	-	-		
	External Dimension	Net Weight		kg	35.00	45.00	59.00		
		lbs		77.16	99.21	130.07			
		Shipping Weight		kg	38.80	50.00	64.20		
		lbs		85.54	110.23	141.54			
		Net Dimensions (WxHxD)		mm	780 x 610 x 298	904 x 657 x 312	908 x 806 x 336		
		inch		30.71 x 24.02 x 11.73	35.59 x 25.87 x 12.28	35.75 x 31.73 x 13.23			
	Shipping Dimensions (WxHxD)		mm	883 x 653 x 412	1,015 x 720 x 425	1,031 x 925 x 447			
	inch		34.76 x 25.71 x 16.22	39.96 x 28.35 x 16.73	40.59 x 36.42 x 17.60				
	Operating Temp.	Cooling	°F	14.0 ~ 114.8	14.0 ~ 114.8	14.0 ~ 114.8			
		Heating	°F	5.0 ~ 75.2	5.0 ~ 75.2	5.0 ~ 75.2			

\* Specifications may be subject to change without prior notice.

1) Nominal capacity are based on (Refrigerant Piping : 16.4ft , Level Differences : 0ft);

.Cooling : Indoor temperature : 80°F DB, 67°F WB / Outdoor temperature : 95°F DB, 75°F WB

.Heating : Indoor temperature : 70°F DB, 60°F WB / Outdoor temperature : 47°F DB, 43°F WB

2) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

# 3 Capacity table

## Inverter(HP)

### AR09JSALBWKNCV + AR09JSALBWKXCV

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor Air Temp. (DB)	Indoor temperature (°F)																				
	68 (DB)			73 (DB)			79 (DB)			80 (DB)			85 (DB)			87 (DB)			89 (DB)		
	57 (WB)			61 (WB)			64 (WB)			67 (WB)			70 (WB)			72 (WB)			75 (WB)		
	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)
14.0	13.74	7.69	0.37	12.44	8.96	0.37	13.74	9.89	0.37	13.74	10.99	0.38	15.03	10.82	0.38	16.33	11.10	0.38	16.33	12.41	0.38
32.0	13.10	7.34	0.44	11.81	8.50	0.44	13.10	9.43	0.45	13.10	10.48	0.45	14.40	10.37	0.45	15.70	10.67	0.45	15.70	11.93	0.45
50.0	12.49	6.99	0.44	11.19	8.06	0.44	12.49	8.99	0.45	12.49	9.99	0.55	13.78	9.92	0.45	15.08	10.26	0.45	15.08	11.46	0.45
68.0	11.86	6.64	0.61	10.56	7.61	0.61	11.86	8.54	0.62	11.86	9.49	0.62	13.16	9.47	0.63	14.45	9.83	0.64	14.45	10.98	0.64
77.0	12.01	6.73	0.82	10.71	7.71	0.83	12.01	8.65	0.84	12.01	9.61	0.84	13.31	9.58	0.85	14.60	9.93	0.86	14.60	11.10	0.87
90.0	12.18	6.82	1.14	10.88	7.84	1.14	12.18	8.77	1.15	12.18	9.74	1.16	13.48	9.70	1.17	14.77	10.05	1.18	14.77	11.23	1.19
95.0	12.26	6.87	1.30	10.97	7.90	1.30	12.26	8.83	1.32	<b>12.26</b>	<b>9.81</b>	<b>1.32</b>	13.56	9.76	1.33	14.86	10.10	1.34	14.86	11.29	1.34
104.0	10.20	5.71	1.11	8.91	6.41	1.12	10.20	7.35	1.13	10.20	8.16	1.14	11.50	8.28	1.15	12.80	8.70	1.16	12.80	9.72	1.17
110.0	8.97	5.03	0.98	7.68	5.53	0.99	8.97	6.46	1.01	8.97	7.18	1.02	10.27	7.39	1.04	11.57	7.87	1.05	11.57	8.79	1.06
115.0	7.76	4.35	0.87	6.47	4.66	0.88	7.76	5.59	0.90	7.76	6.21	0.91	9.06	6.52	0.92	10.36	7.04	0.93	10.36	7.87	0.95

#### Heating

TC : Total Capacity, PI: Power Input

Outdoor Air Temp. (DB)	Indoor temperature (°F)											
	61 (DB)		64 (DB)		68 (DB)		70 (DB)		72 (DB)		75 (DB)	
	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)
5.0	6.57	0.94	6.44	0.96	6.31	0.98	6.31	0.98	6.31	0.99	6.31	1.00
14.0	7.27	0.99	7.12	1.01	6.98	1.03	6.98	1.04	6.98	1.04	6.98	1.05
23.0	7.96	1.04	7.81	1.06	7.65	1.08	7.65	1.09	7.65	1.09	7.65	1.10
32.0	8.66	1.09	8.49	1.11	8.33	1.14	8.33	1.14	8.33	1.15	8.33	1.16
36.0	8.94	1.11	8.77	1.13	8.59	1.16	8.59	1.16	8.59	1.17	8.59	1.18
41.0	9.44	0.70	9.25	0.71	9.07	0.72	8.98	0.73	8.89	0.73	8.71	0.74
47.0	9.43	0.67	9.25	0.69	9.07	0.70	<b>8.98</b>	<b>0.70</b>	8.98	0.71	8.89	0.71
50.0	9.42	0.65	9.24	0.66	9.06	0.66	8.97	0.67	8.97	0.67	8.88	0.68
59.0	9.41	0.58	9.23	0.59	9.05	0.60	8.96	0.60	8.96	0.61	8.87	0.61
68.0	9.40	0.52	9.22	0.53	9.03	0.54	8.94	0.54	8.94	0.54	8.85	0.55
75.0	9.39	0.47	9.21	0.48	9.02	0.49	8.93	0.49	8.93	0.49	8.85	0.50

### AR09JSFLBWKNCV + AR09JSFLBWKXCV

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor Air Temp. (DB)	Indoor temperature (°F)																				
	68 (DB)			73 (DB)			79 (DB)			80 (DB)			85 (DB)			87 (DB)			89 (DB)		
	57 (WB)			61 (WB)			64 (WB)			67 (WB)			70 (WB)			72 (WB)			75 (WB)		
	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)
14.0	13.74	7.69	0.37	12.44	8.96	0.37	13.74	9.89	0.37	13.74	10.99	0.38	15.03	10.82	0.38	16.33	11.10	0.38	16.33	12.41	0.38
32.0	13.10	7.34	0.44	11.81	8.50	0.44	13.10	9.43	0.45	13.10	10.48	0.45	14.40	10.37	0.45	15.70	10.67	0.45	15.70	11.93	0.45
50.0	12.49	6.99	0.44	11.19	8.06	0.44	12.49	8.99	0.45	12.49	9.99	0.55	13.78	9.92	0.45	15.08	10.26	0.45	15.08	11.46	0.45
68.0	11.86	6.64	0.61	10.56	7.61	0.61	11.86	8.54	0.62	11.86	9.49	0.62	13.16	9.47	0.63	14.45	9.83	0.64	14.45	10.98	0.64
77.0	12.01	6.73	0.82	10.71	7.71	0.83	12.01	8.65	0.84	12.01	9.61	0.84	13.31	9.58	0.85	14.60	9.93	0.86	14.60	11.10	0.87
90.0	12.18	6.82	1.14	10.88	7.84	1.14	12.18	8.77	1.15	12.18	9.74	1.16	13.48	9.70	1.17	14.77	10.05	1.18	14.77	11.23	1.19
95.0	12.26	6.87	1.30	10.97	7.90	1.30	12.26	8.83	1.32	<b>12.26</b>	<b>9.81</b>	<b>1.32</b>	13.56	9.76	1.33	14.86	10.10	1.34	14.86	11.29	1.34
104.0	10.20	5.71	1.11	8.91	6.41	1.12	10.20	7.35	1.13	10.20	8.16	1.14	11.50	8.28	1.15	12.80	8.70	1.16	12.80	9.72	1.17
110.0	8.97	5.03	0.98	7.68	5.53	0.99	8.97	6.46	1.01	8.97	7.18	1.02	10.27	7.39	1.04	11.57	7.87	1.05	11.57	8.79	1.06
115.0	7.76	4.35	0.87	6.47	4.66	0.88	7.76	5.59	0.90	7.76	6.21	0.91	9.06	6.52	0.92	10.36	7.04	0.93	10.36	7.87	0.95

#### Heating

TC : Total Capacity PI: Power Input

Outdoor Air Temp. (DB)	Indoor temperature (°F)											
	61 (DB)		64 (DB)		68 (DB)		70 (DB)		72 (DB)		75 (DB)	
	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)
5.0	6.57	0.94	6.44	0.96	6.31	0.98	6.31	0.98	6.31	0.99	6.31	1.00
14.0	7.27	0.99	7.12	1.01	6.98	1.03	6.98	1.04	6.98	1.04	6.98	1.05
23.0	7.96	1.04	7.81	1.06	7.65	1.08	7.65	1.09	7.65	1.09	7.65	1.10
32.0	8.66	1.09	8.49	1.11	8.33	1.14	8.33	1.14	8.33	1.15	8.33	1.16
36.0	8.94	1.11	8.77	1.13	8.59	1.16	8.59	1.16	8.59	1.17	8.59	1.18
41.0	9.44	0.70	9.25	0.71	9.07	0.72	8.98	0.73	8.89	0.73	8.71	0.74
47.0	9.43	0.67	9.25	0.69	9.07	0.70	<b>8.98</b>	<b>0.70</b>	8.98	0.71	8.89	0.71
50.0	9.42	0.65	9.24	0.66	9.06	0.66	8.97	0.67	8.97	0.67	8.88	0.68
59.0	9.41	0.58	9.23	0.59	9.05	0.60	8.96	0.60	8.96	0.61	8.87	0.61
68.0	9.40	0.52	9.22	0.53	9.03	0.54	8.94	0.54	8.94	0.54	8.85	0.55
75.0	9.39	0.47	9.21	0.48	9.02	0.49	8.93	0.49	8.93	0.49	8.85	0.50

- Capacities are based on following conditions;

. Cooling mode indoor air temperature ( , DB/WB) : 68/57, 72/61, 77/64, 80/67, 82/70, 86/72, 90/75

. Heating mode outdoor air : 85%RH. However, the condition rated capacity is 47 DB / 43 WB.

. Refrigerant piping length : 7.5m (24.6ft) . Level difference : 0m.

. In case of Inverter models, the cooling capacity on the capacity table can be higher than nominal capacity as inverter compressors operate with different Hz depending on outdoor and indoor temperatures.

- The specifications, designs and information in this Databook is subject to change without notice.



# 3 Capacity table

## Inverter(HP)

### AR12JSALBWKNCV + AR12JSALBWKXCV

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor Air Temp. (DB)	Indoor temperature (°F)																												
	68 (DB)			73 (DB)			79 (DB)			80 (DB)			85 (DB)			87 (DB)			89 (DB)										
	57 (WB)		TC(MBH)	SHC(MBH)	PI(kW)	61 (WB)		TC(MBH)	SHC(MBH)	PI(kW)	64 (WB)		TC(MBH)	SHC(MBH)	PI(kW)	70 (WB)		TC(MBH)	SHC(MBH)	PI(kW)	72 (WB)		TC(MBH)	SHC(MBH)	PI(kW)	75 (WB)		TC(MBH)	SHC(MBH)
14.0	15.82	7.91	0.41	14.52	9.58	0.41	15.82	10.44	0.41	15.82	11.71	0.42	17.11	11.30	0.42	18.41	11.41	0.42	18.41	12.89	0.42								
32.0	14.57	7.28	0.45	13.27	8.76	0.45	14.57	9.62	0.46	14.57	10.78	0.46	15.87	10.47	0.46	17.16	10.64	0.46	17.16	12.01	0.46								
50.0	13.31	6.65	0.45	12.01	7.93	0.45	13.31	8.78	0.46	13.31	9.85	0.53	14.60	9.64	0.46	15.90	9.86	0.46	15.90	11.13	0.46								
68.0	12.04	6.02	0.56	10.74	7.09	0.57	12.04	7.94	0.57	12.04	8.91	0.57	13.33	8.80	0.58	14.63	9.07	0.59	14.63	10.24	0.59								
77.0	12.83	6.41	0.82	11.53	7.61	0.83	12.83	8.47	0.84	12.83	9.49	0.84	14.13	9.32	0.85	15.42	9.56	0.86	15.42	10.80	0.87								
90.0	13.96	6.98	1.21	12.66	8.35	1.21	13.96	9.21	1.22	13.96	10.33	1.23	15.25	10.07	1.24	16.55	10.26	1.25	16.55	11.58	1.27								
95.0	14.43	7.21	1.40	13.13	8.67	1.41	14.43	9.52	1.42	<b>14.43</b>	<b>10.68</b>	<b>1.43</b>	15.73	10.38	1.44	17.02	10.55	1.45	17.02	11.92	1.45								
104.0	11.16	5.58	1.11	9.86	6.51	1.12	11.16	7.36	1.13	11.16	8.26	1.14	12.45	8.22	1.15	13.75	8.53	1.16	13.75	9.63	1.17								
110.0	9.18	4.59	0.91	7.88	5.20	0.92	9.18	6.06	0.94	9.18	6.79	0.95	10.47	6.91	0.96	11.77	7.30	0.98	11.77	8.24	0.99								
115.0	7.22	3.61	0.74	5.93	3.91	0.74	7.22	4.77	0.76	7.22	5.35	0.77	8.52	5.62	0.77	9.82	6.09	0.79	9.82	6.87	0.80								

#### Heating

TC : Total Capacity, PI: Power Input

Outdoor Air Temp. (DB)	Indoor temperature (°F)											
	61 (DB)		64 (DB)		68 (DB)		70 (DB)		72 (DB)		75 (DB)	
	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)
5.0	10.15	1.28	9.95	1.30	9.75	1.33	9.75	1.34	9.75	1.34	9.75	1.36
14.0	10.88	1.31	10.66	1.33	10.45	1.36	10.45	1.37	10.45	1.37	10.45	1.39
23.0	11.61	1.34	11.38	1.36	11.16	1.39	11.16	1.40	11.16	1.40	11.16	1.42
32.0	12.34	1.37	12.10	1.39	11.86	1.42	11.86	1.43	11.86	1.44	11.86	1.45
36.0	12.63	1.38	12.39	1.41	12.14	1.43	12.14	1.44	12.14	1.45	12.14	1.46
41.0	13.42	1.06	13.15	1.08	12.89	1.10	12.77	1.11	12.64	1.11	12.38	1.12
47.0	13.19	1.00	12.93	1.03	12.68	1.05	<b>12.55</b>	<b>1.05</b>	12.55	1.06	12.43	1.07
50.0	12.86	0.95	12.60	0.97	12.36	0.96	12.23	0.97	12.23	0.97	12.11	0.98
59.0	12.30	0.79	12.05	0.81	11.82	0.83	11.70	0.83	11.70	0.83	11.58	0.84
68.0	11.74	0.66	11.51	0.68	11.28	0.69	11.17	0.69	11.17	0.70	11.06	0.70
75.0	11.29	0.56	11.07	0.57	10.85	0.58	10.74	0.58	10.74	0.58	10.63	0.59

### AR12JSFLBWKNCV + AR12JSFLBWKXCV

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor Air Temp. (DB)	Indoor temperature (°F)																												
	68 (DB)			73 (DB)			79 (DB)			80 (DB)			85 (DB)			87 (DB)			89 (DB)										
	57 (WB)		TC(MBH)	SHC(MBH)	PI(kW)	61 (WB)		TC(MBH)	SHC(MBH)	PI(kW)	64 (WB)		TC(MBH)	SHC(MBH)	PI(kW)	70 (WB)		TC(MBH)	SHC(MBH)	PI(kW)	72 (WB)		TC(MBH)	SHC(MBH)	PI(kW)	75 (WB)		TC(MBH)	SHC(MBH)
14.0	15.82	7.91	0.41	14.52	9.58	0.41	15.82	10.44	0.41	15.82	11.71	0.42	17.11	11.30	0.42	18.41	11.41	0.42	18.41	12.89	0.42								
32.0	14.57	7.28	0.45	13.27	8.76	0.45	14.57	9.62	0.46	14.57	10.78	0.46	15.87	10.47	0.46	17.16	10.64	0.46	17.16	12.01	0.46								
50.0	13.31	6.65	0.45	12.01	7.93	0.45	13.31	8.78	0.46	13.31	9.85	0.53	14.60	9.64	0.46	15.90	9.86	0.46	15.90	11.13	0.46								
68.0	12.04	6.02	0.56	10.74	7.09	0.57	12.04	7.94	0.57	12.04	8.91	0.57	13.33	8.80	0.58	14.63	9.07	0.59	14.63	10.24	0.59								
77.0	12.83	6.41	0.82	11.53	7.61	0.83	12.83	8.47	0.84	12.83	9.49	0.84	14.13	9.32	0.85	15.42	9.56	0.86	15.42	10.80	0.87								
90.0	13.96	6.98	1.21	12.66	8.35	1.21	13.96	9.21	1.22	13.96	10.33	1.23	15.25	10.07	1.24	16.55	10.26	1.25	16.55	11.58	1.27								
95.0	14.43	7.21	1.40	13.13	8.67	1.41	14.43	9.52	1.42	<b>14.43</b>	<b>10.68</b>	<b>1.43</b>	15.73	10.38	1.44	17.02	10.55	1.45	17.02	11.92	1.45								
104.0	11.16	5.58	1.11	9.86	6.51	1.12	11.16	7.36	1.13	11.16	8.26	1.14	12.45	8.22	1.15	13.75	8.53	1.16	13.75	9.63	1.17								
110.0	9.18	4.59	0.91	7.88	5.20	0.92	9.18	6.06	0.94	9.18	6.79	0.95	10.47	6.91	0.96	11.77	7.30	0.98	11.77	8.24	0.99								
115.0	7.22	3.61	0.74	5.93	3.91	0.74	7.22	4.77	0.76	7.22	5.35	0.77	8.52	5.62	0.77	9.82	6.09	0.79	9.82	6.87	0.80								

#### Heating

TC : Total Capacity PI: Power Input

Outdoor Air Temp. (DB)	Indoor temperature (°F)											
	61 (DB)		64 (DB)		68 (DB)		70 (DB)		72 (DB)		75 (DB)	
	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)
5.0	10.15	1.28	9.95	1.30	9.75	1.33	9.75	1.34	9.75	1.34	9.75	1.36
14.0	10.88	1.31	10.66	1.33	10.45	1.36	10.45	1.37	10.45	1.37	10.45	1.39
23.0	11.61	1.34	11.38	1.36	11.16	1.39	11.16	1.40	11.16	1.40	11.16	1.42
32.0	12.34	1.37	12.10	1.39	11.86	1.42	11.86	1.43	11.86	1.44	11.86	1.45
36.0	12.63	1.38	12.39	1.41	12.14	1.43	12.14	1.44	12.14	1.45	12.14	1.46
41.0	13.42	1.06	13.15	1.08	12.89	1.10	12.77	1.11	12.64	1.11	12.38	1.12
47.0	13.19	1.00	12.93	1.03	12.68	1.05	<b>12.55</b>	<b>1.05</b>	12.55	1.06	12.43	1.07
50.0	12.86	0.95	12.60	0.97	12.36	0.96	12.23	0.97	12.23	0.97	12.11	0.98
59.0	12.30	0.79	12.05	0.81	11.82	0.83	11.70	0.83	11.70	0.83	11.58	0.84
68.0	11.74	0.66	11.51	0.68	11.28	0.69	11.17	0.69	11.17	0.70	11.06	0.70
75.0	11.29	0.56	11.07	0.57	10.85	0.58	10.74	0.58	10.74	0.58	10.63	0.59

- Capacities are based on following conditions;

. Cooling mode indoor air temperature ( , DB/WB) : 68/57, 72/61, 77/64, 80/67, 82/70, 86/72, 90/75

. Heating mode outdoor air : 85%RH. However, the condition rated capacity is 47 DB / 43 WB.

. Refrigerant piping length : 7.5m (24.6ft) . Level difference : 0m.

. In case of Inverter models, the cooling capacity on the capacity table can be higher than nominal capacity as inverter compressors operate with different Hz depending on outdoor and indoor temperatures.

- The specifications, designs and information in this Databook is subject to change without notice.

# 3 Capacity table

## Inverter(HP)

### AR18JSFLBWKNCV + AR18JSFLBWKXCV

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor Air Temp. (DB)	Indoor temperature (°F)																				
	68 (DB)			73 (DB)			79 (DB)			80 (DB)			85 (DB)			87 (DB)			89 (DB)		
	57 (WB)			61 (WB)			64 (WB)			67 (WB)			70 (WB)			72 (WB)			75 (WB)		
	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)
14.0	19.08	8.97	0.57	17.78	11.20	0.57	19.08	12.02	0.57	19.08	13.55	0.58	20.38	12.84	0.58	21.67	12.79	0.58	21.67	14.52	0.58
32.0	17.54	8.24	0.58	16.24	10.23	0.58	17.54	11.05	0.59	17.54	12.45	0.59	18.83	11.87	0.59	20.13	11.88	0.59	20.13	13.49	0.60
50.0	15.97	7.51	0.58	14.67	9.24	0.58	15.97	10.06	0.59	15.97	11.34	0.61	17.26	10.88	0.59	18.56	10.95	0.59	18.56	12.44	0.60
68.0	14.43	6.78	0.62	13.14	8.28	0.62	14.43	9.09	0.63	14.43	10.25	0.63	15.73	9.91	0.64	17.03	10.05	0.64	17.03	11.41	0.65
77.0	16.14	7.59	1.03	14.84	9.35	1.03	16.14	10.17	1.04	16.14	11.46	1.05	17.44	10.98	1.06	18.73	11.05	1.07	18.73	12.55	1.08
90.0	18.53	8.71	1.65	17.23	10.86	1.65	18.53	11.67	1.67	18.53	13.15	1.68	19.82	12.49	1.70	21.12	12.46	1.71	21.12	14.15	1.73
95.0	19.57	9.20	1.96	18.27	11.51	1.97	19.57	12.33	1.99	<b>19.57</b>	<b>13.89</b>	<b>2.00</b>	20.86	13.14	2.01	22.16	13.07	2.02	22.16	14.85	2.03
104.0	16.96	7.97	1.80	15.66	9.87	1.82	16.96	10.68	1.84	16.96	12.04	1.86	18.25	11.50	1.88	19.55	11.53	1.90	19.55	13.10	1.92
110.0	15.42	7.25	1.70	14.13	8.90	1.72	15.42	9.72	1.75	15.42	10.95	1.77	16.72	10.53	1.80	18.02	10.63	1.82	18.02	12.07	1.84
115.0	13.86	6.51	1.62	12.56	7.91	1.64	13.86	8.73	1.67	13.86	9.84	1.69	15.15	9.55	1.70	16.45	9.71	1.74	16.45	11.02	1.77

#### Heating

TC : Total Capacity, PI: Power Input

Outdoor Air Temp. (DB)	Indoor temperature (°F)											
	61 (DB)		64 (DB)		68 (DB)		70 (DB)		72 (DB)		75 (DB)	
	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)
5.0	13.55	1.92	13.28	1.96	13.02	2.00	13.02	2.00	13.02	2.01	13.02	2.04
14.0	15.31	2.03	15.01	2.07	14.72	2.11	14.72	2.12	14.72	2.13	14.72	2.15
23.0	17.08	2.14	16.74	2.19	16.41	2.23	16.41	2.24	16.41	2.25	16.41	2.27
32.0	18.84	2.25	18.47	2.30	18.11	2.35	18.11	2.36	18.11	2.37	18.11	2.39
36.0	19.55	2.30	19.16	2.35	18.79	2.39	18.79	2.41	18.79	2.42	18.79	2.44
41.0	21.09	1.69	20.68	1.73	20.28	1.76	20.07	1.77	19.87	1.78	19.47	1.80
47.0	20.56	1.60	20.16	1.63	19.77	1.67	<b>19.57</b>	<b>1.67</b>	19.57	1.68	19.37	1.70
50.0	19.77	1.51	19.38	1.54	19.00	1.52	18.81	1.53	18.81	1.53	18.62	1.55
59.0	18.44	1.22	18.08	1.25	17.73	1.27	17.55	1.28	17.55	1.29	17.38	1.30
68.0	17.12	0.99	16.78	1.01	16.45	1.03	16.29	1.04	16.29	1.04	16.13	1.05
75.0	16.06	0.80	15.74	0.82	15.44	0.84	15.28	0.84	15.28	0.84	15.13	0.85

### AR24JSFLBWKNCV + AR24JSFLBWKXCV

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor Air Temp. (DB)	Indoor temperature (°F)																				
	68 (DB)			73 (DB)			79 (DB)			80 (DB)			85 (DB)			87 (DB)			89 (DB)		
	57 (WB)			61 (WB)			64 (WB)			67 (WB)			70 (WB)			72 (WB)			75 (WB)		
	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)	TC(MBH)	SHC(MBH)	PI(kW)
14.0	26.34	11.33	0.65	25.05	14.78	0.66	26.34	15.54	0.66	26.34	17.65	0.67	27.64	16.31	0.67	28.94	15.92	0.67	28.94	18.23	0.67
32.0	23.82	10.24	0.70	22.52	13.29	0.70	23.82	14.05	0.71	23.82	15.96	0.71	25.11	14.82	0.71	26.41	14.52	0.71	26.41	16.64	0.72
50.0	21.26	9.14	0.70	19.96	11.78	0.70	21.26	12.54	0.71	21.26	14.24	0.78	22.55	13.31	0.71	23.85	13.12	0.71	23.85	15.03	0.72
68.0	18.73	8.05	0.81	17.43	10.28	0.82	18.73	11.05	0.83	18.73	12.55	0.83	20.03	11.81	0.84	21.32	11.73	0.85	21.32	13.43	0.86
77.0	21.39	9.20	1.39	20.10	11.86	1.40	21.39	12.62	1.41	21.39	14.33	1.42	22.69	13.39	1.43	23.99	13.19	1.45	23.99	15.11	1.46
90.0	25.11	10.80	2.24	23.82	14.05	2.26	25.11	14.82	2.28	25.11	16.83	2.29	26.41	15.58	2.31	27.71	15.24	2.34	27.71	17.45	2.36
95.0	26.70	11.48	2.68	25.41	14.99	2.69	26.70	15.75	2.72	<b>26.70</b>	<b>17.89</b>	<b>2.73</b>	28.00	16.52	2.75	29.30	16.11	2.76	29.30	18.46	2.77
104.0	20.92	8.99	2.13	19.62	11.58	2.16	20.92	12.34	2.18	20.92	14.01	2.20	22.21	13.11	2.22	23.51	12.93	2.24	23.51	14.81	2.27
110.0	17.44	7.50	1.80	16.14	9.52	1.81	17.44	10.29	1.85	17.44	11.68	1.87	18.73	11.05	1.90	20.03	11.02	1.92	20.03	12.62	1.94
115.0	13.94	5.99	1.47	12.64	7.46	1.49	13.94	8.22	1.52	13.94	9.34	1.54	15.23	8.99	1.55	16.53	9.09	1.58	16.53	10.41	1.61

#### Heating

TC : Total Capacity PI: Power Input

Outdoor Air Temp. (DB)	Indoor temperature (°F)											
	61 (DB)		64 (DB)		68 (DB)		70 (DB)		72 (DB)		75 (DB)	
	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)	TC(MBH)	PI(kW)
5.0	17.21	2.53	16.87	2.59	16.54	2.64	16.54	2.65	16.54	2.67	16.54	2.69
14.0	18.12	2.55	17.77	2.61	17.42	2.66	17.42	2.67	17.42	2.69	17.42	2.71
23.0	19.04	2.57	18.67	2.63	18.30	2.68	18.30	2.69	18.30	2.71	18.30	2.73
32.0	19.96	2.59	19.57	2.65	19.19	2.70	19.19	2.71	19.19	2.73	19.19	2.76
36.0	20.33	2.60	19.93	2.65	19.54	2.71	19.54	2.72	19.54	2.74	19.54	2.76
41.0	26.33	2.12	25.81	2.16	25.30	2.20	25.05	2.21	24.80	2.22	24.30	2.25
47.0	25.79	2.01	25.28	2.05	24.79	2.09	<b>24.54</b>	<b>2.10</b>	24.54	2.11	24.29	2.13
50.0	24.98	1.90	24.49	1.94	24.01	1.92	23.77	1.93	23.77	1.94	23.54	1.96
59.0	23.64	1.57	23.18	1.60	22.72	1.63	22.49	1.64	22.49	1.65	22.27	1.67
68.0	22.30	1.30	21.86	1.32	21.43	1.35	21.22	1.36	21.22	1.36	21.00	1.38
75.0	21.22	1.08	20.80	1.10	20.40	1.12	20.19	1.13	20.19	1.14	19.99	1.15

- Capacities are based on following conditions;

. Cooling mode indoor air temperature ( , DB/WB) : 68/57, 72/61, 77/64, 80/67, 82/70, 86/72, 90/75

. Heating mode outdoor air : 85%RH. However, the condition rated capacity is 47 DB / 43 WB.

. Refrigerant piping length : 7.5m (24.6ft) . Level difference : 0m.

. In case of Inverter models, the cooling capacity on the capacity table can be higher than nominal capacity as inverter compressors operate with different Hz depending on outdoor and indoor temperatures.

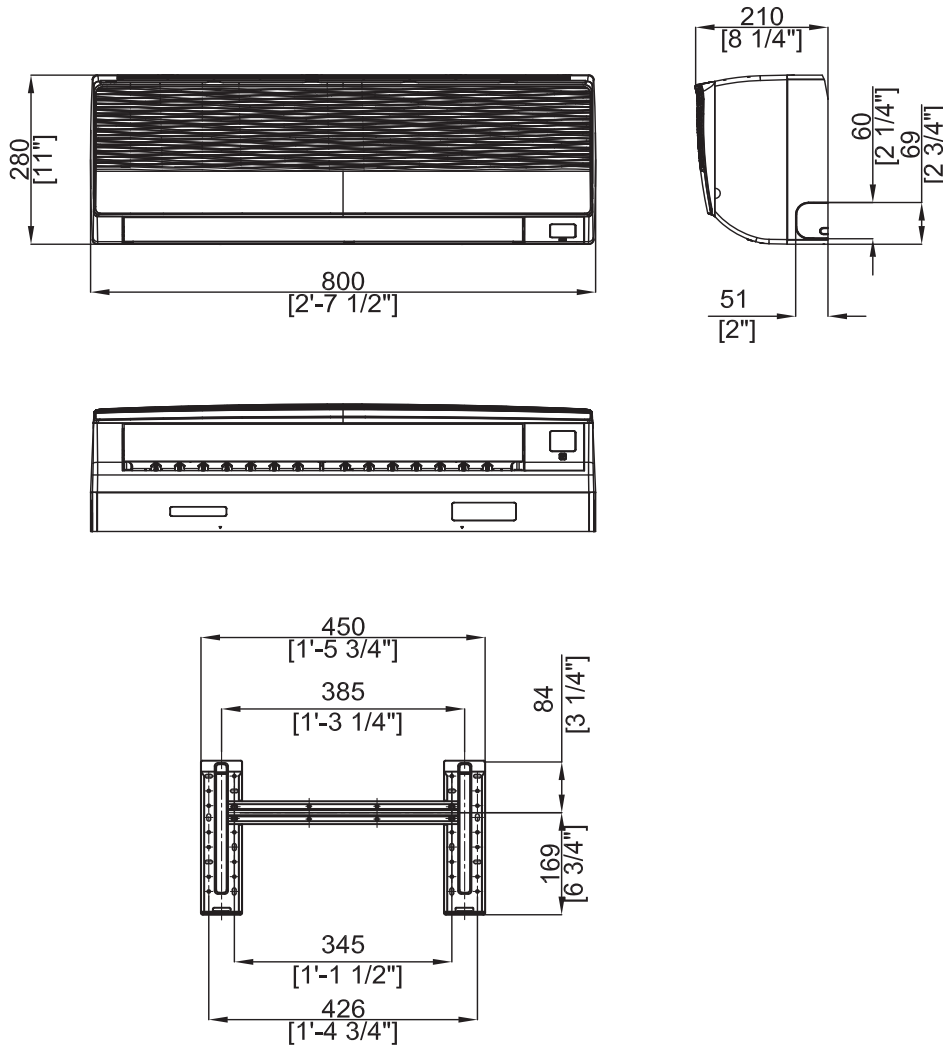
- The specifications, designs and information in this Databook is subject to change without notice.

# 4 Dimensional drawing

## Indoor : Inverter(HP)

AR09JSALBWKNCV, AR09JSFLBWKNCV

Units : mm / inches



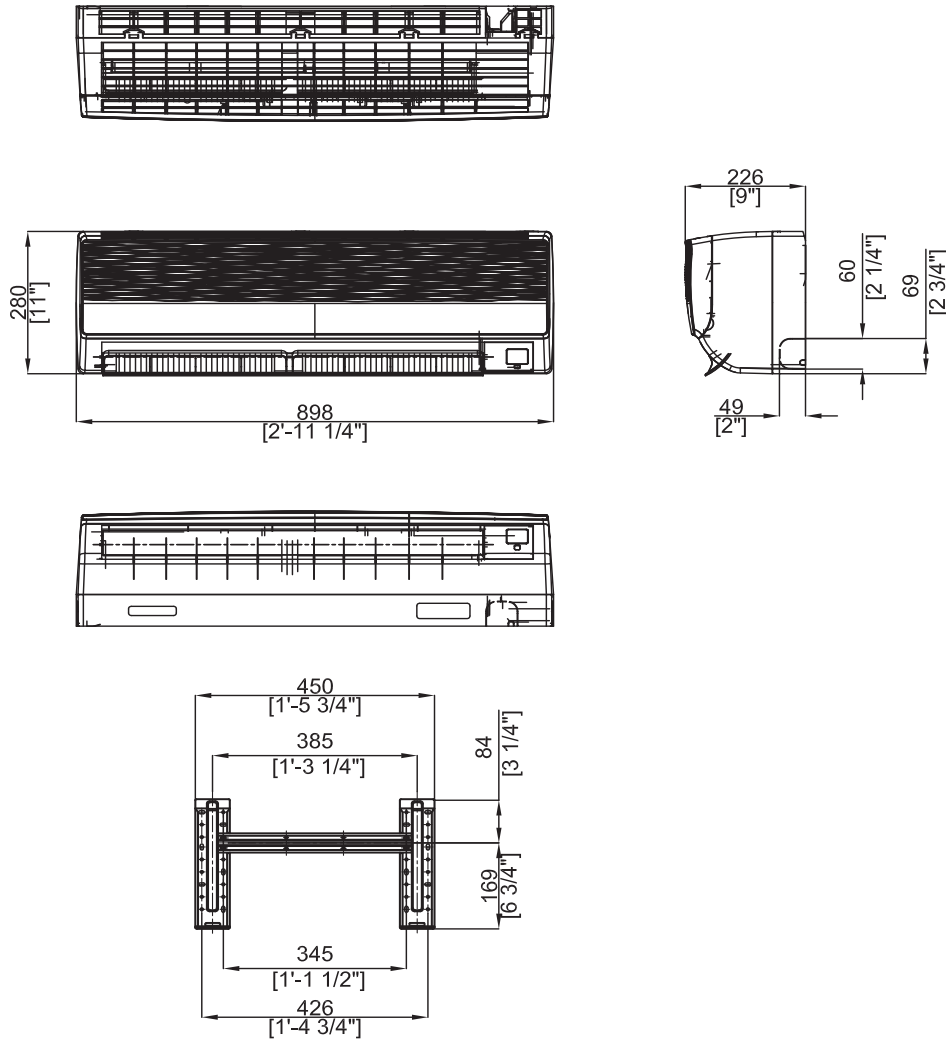
No.	Name	Description
		9kBtu
1	Refrigerant gas pipe	Ø9.52 Flare
2	Refrigerant liquid pipe	Ø6.35 Flare
3	Drain pipe connection	16 Hose

# 4 Dimensional drawing

## Indoor : Inverter(HP)

AR12JSALBWKNCV, AR12JSFLBWKNCV

Units : mm / inches



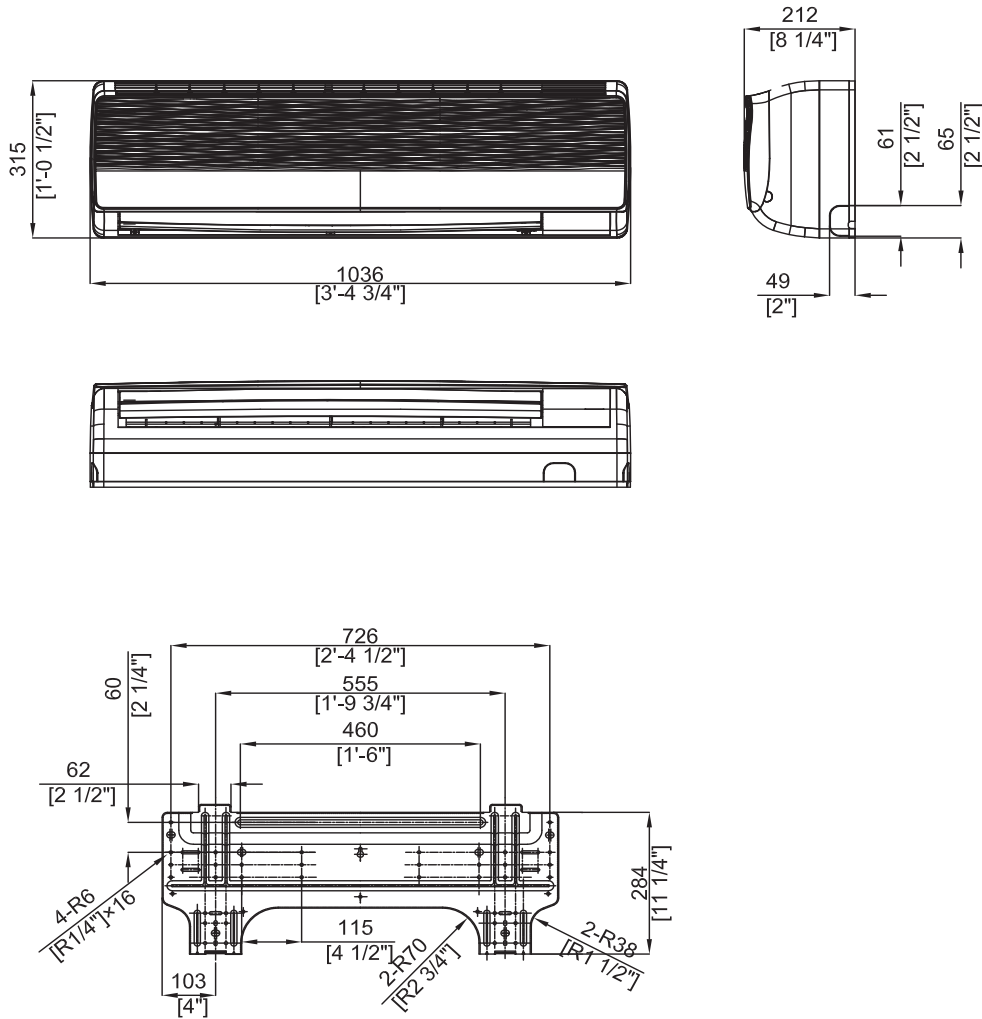
No.	Name	Description
		12kBtu
1	Refrigerant gas pipe	Ø9.52 Flare
2	Refrigerant liquid pipe	Ø6.35 Flare
3	Drain pipe connection	16 Hose

# 4 Dimensional drawing

## Indoor : Inverter(HP)

AR18JSFLBWKNVCV

Units : mm / inches



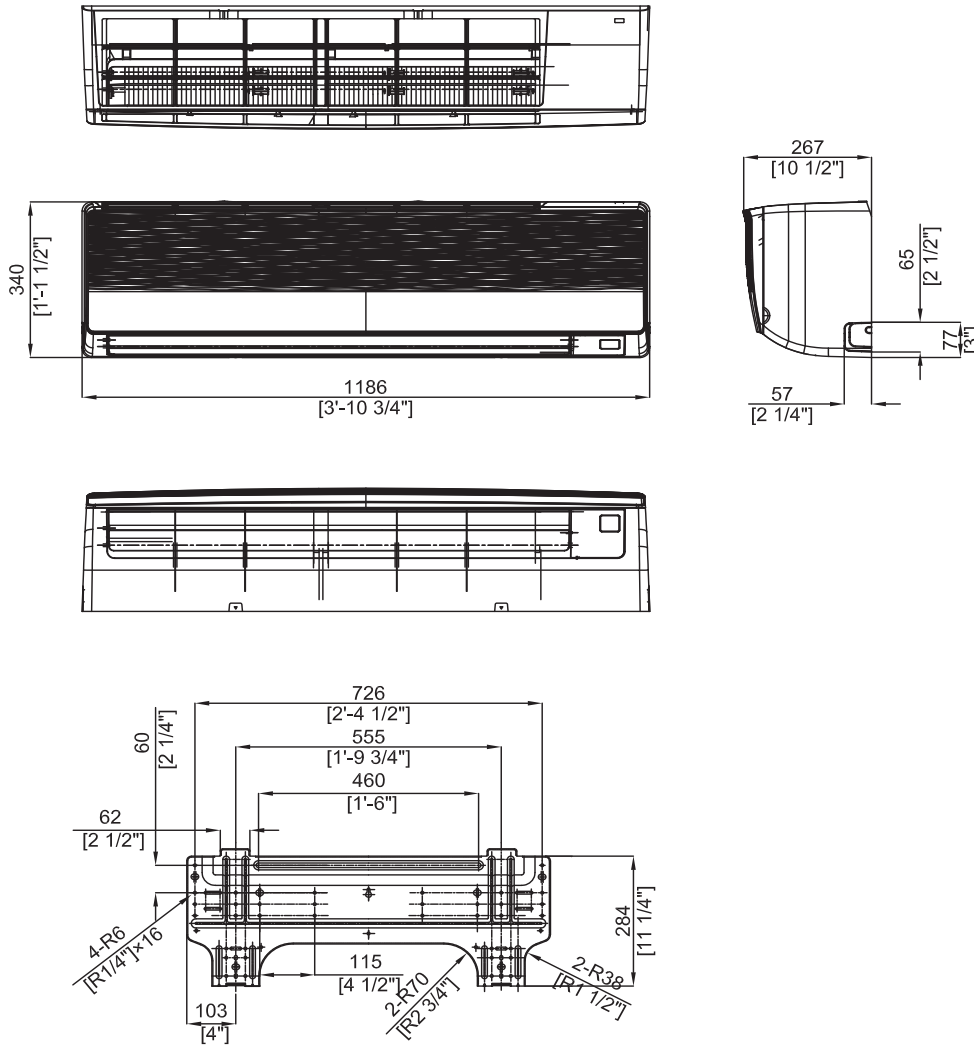
No.	Name	Description
		18kBtu
1	Refrigerant gas pipe	Ø12.7 Flare
2	Refrigerant liquid pipe	Ø6.35 Flare
3	Drain pipe connection	16 Hose

# 4 Dimensional drawing

## Indoor : Inverter(HP)

AR24JSFLBWKNCV

Units : mm / inches



No.	Name	Description
1	Refrigerant gas pipe	Ø15.88 Flare
2	Refrigerant liquid pipe	Ø9.52 Flare
3	Drain pipe connection	16 Hose

# 4 Dimensional drawing

## Outdoor

AR09JSALBWKXCV, AR09JSFLBWKXCV

Units : mm / inches

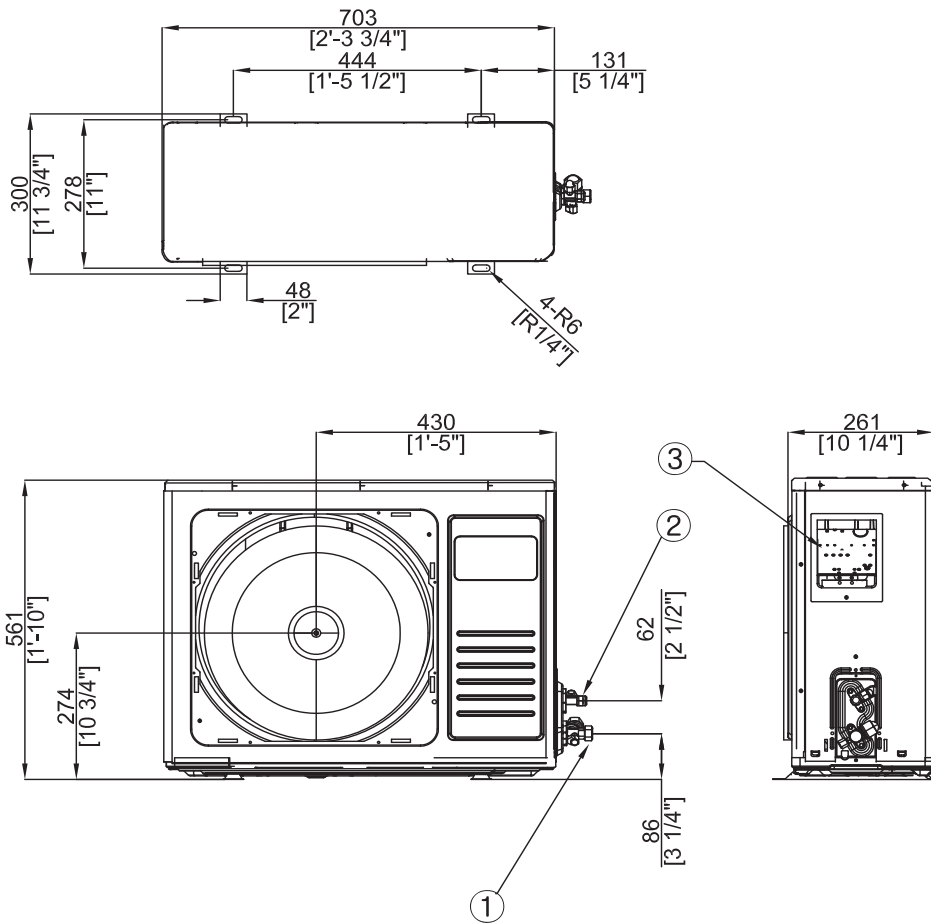


Table of descriptions

1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Power & Comm. wiring conduits	9	
4		10	
5		11	
6		12	

# 4 Dimensional drawing

## Outdoor

AR12JSALBWKXCV, AR12JSFLBWKXCV

Units : mm / inches

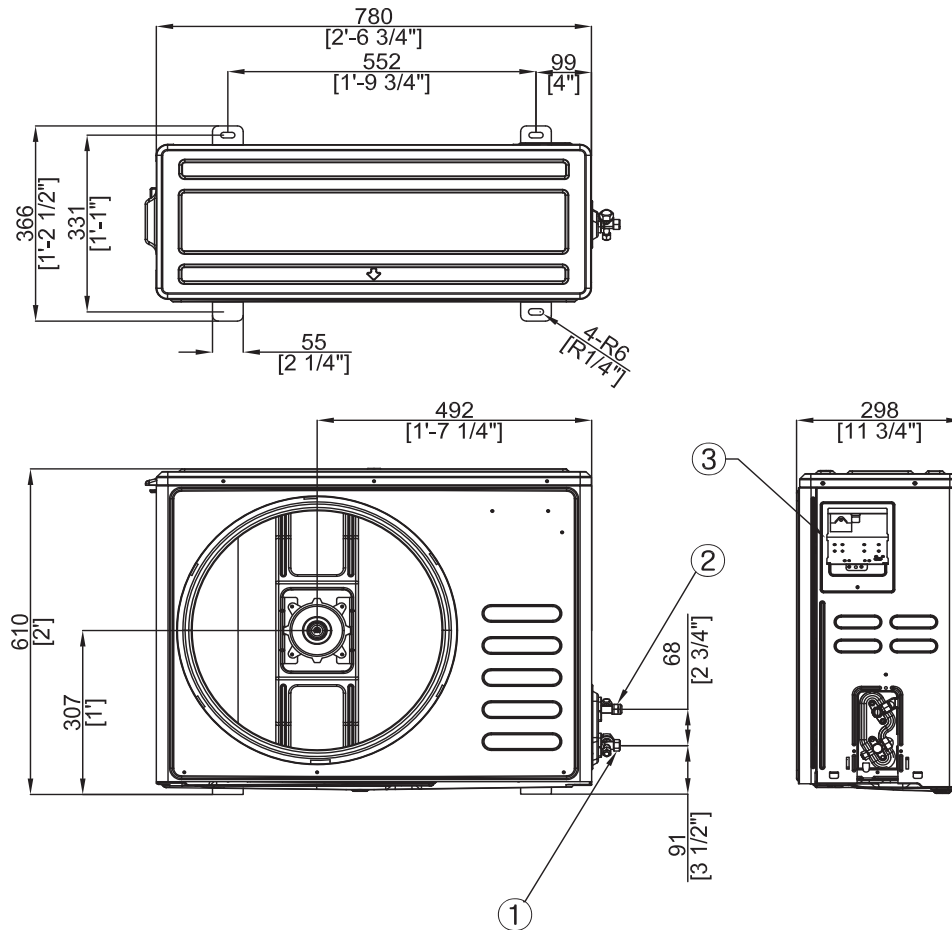


Table of descriptions

1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Power & Comm. wiring conduits	9	
4		10	
5		11	
6		12	



# 4 Dimensional drawing

## Outdoor

AR18JSFLBWKXCV

Units : mm / inches

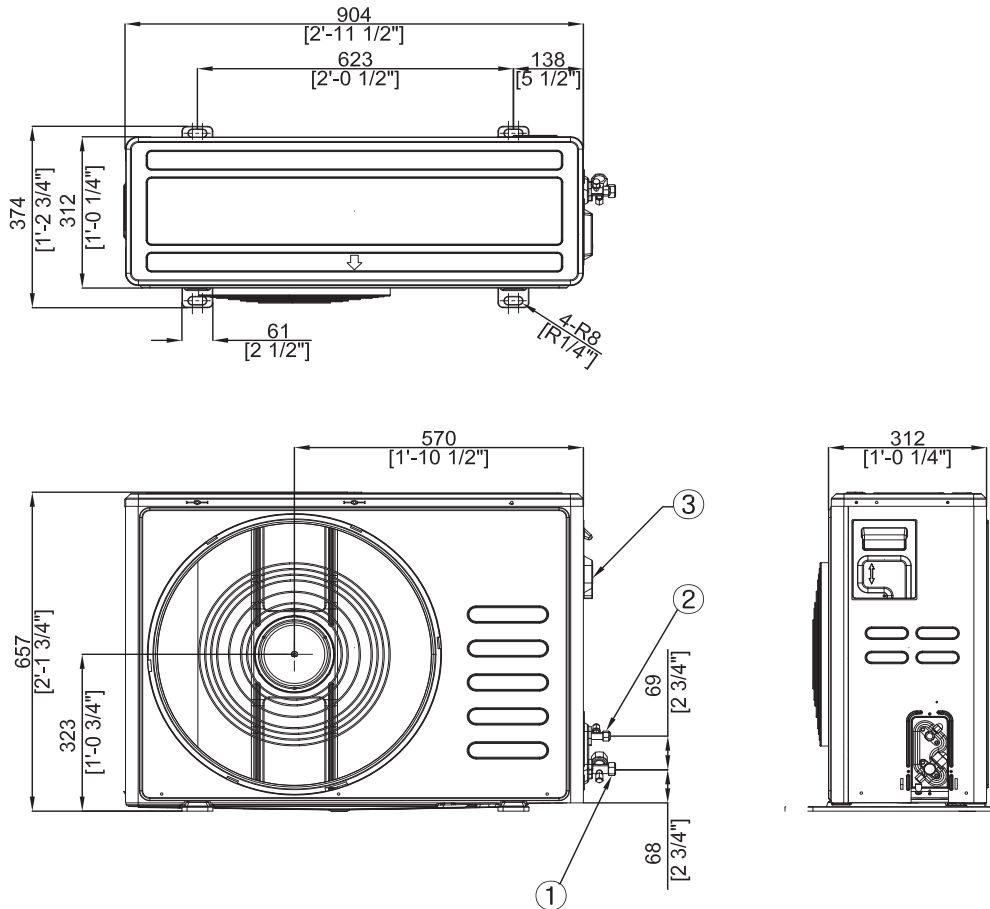


Table of descriptions

1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Power & Comm. wiring conduits	9	
4		10	
5		11	
6		12	

# 4 Dimensional drawing

## Outdoor

AR24JSFLBWKXCV

Units : mm / inches

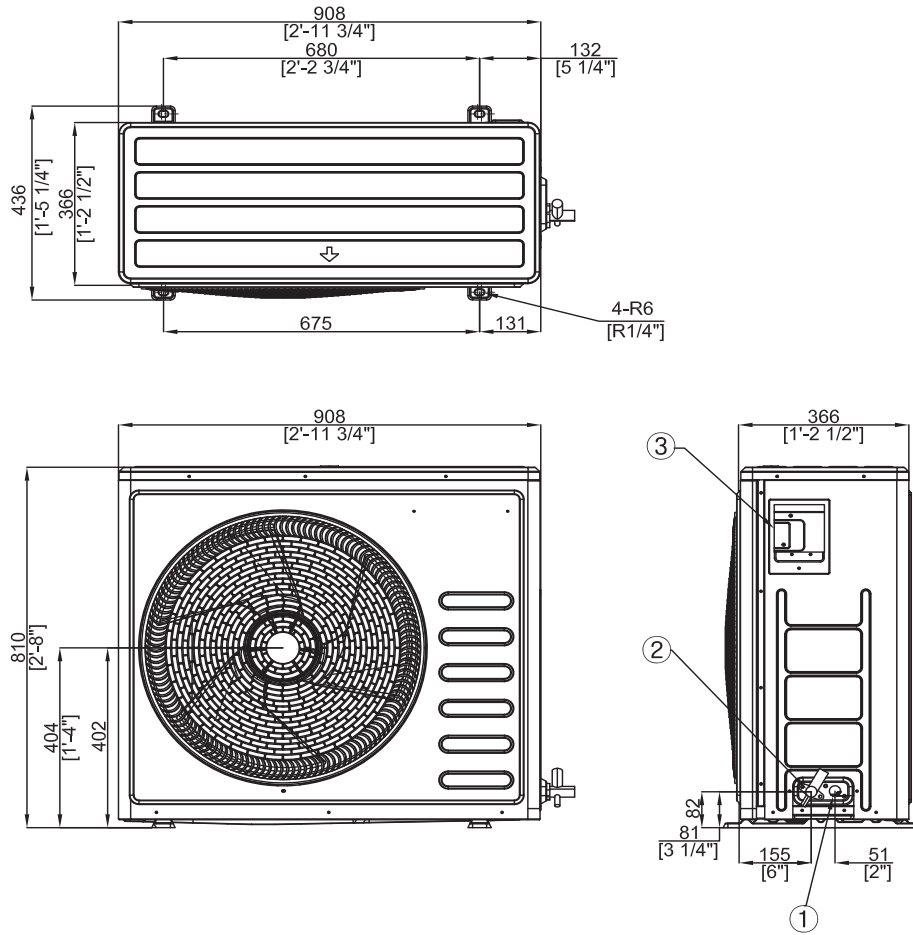


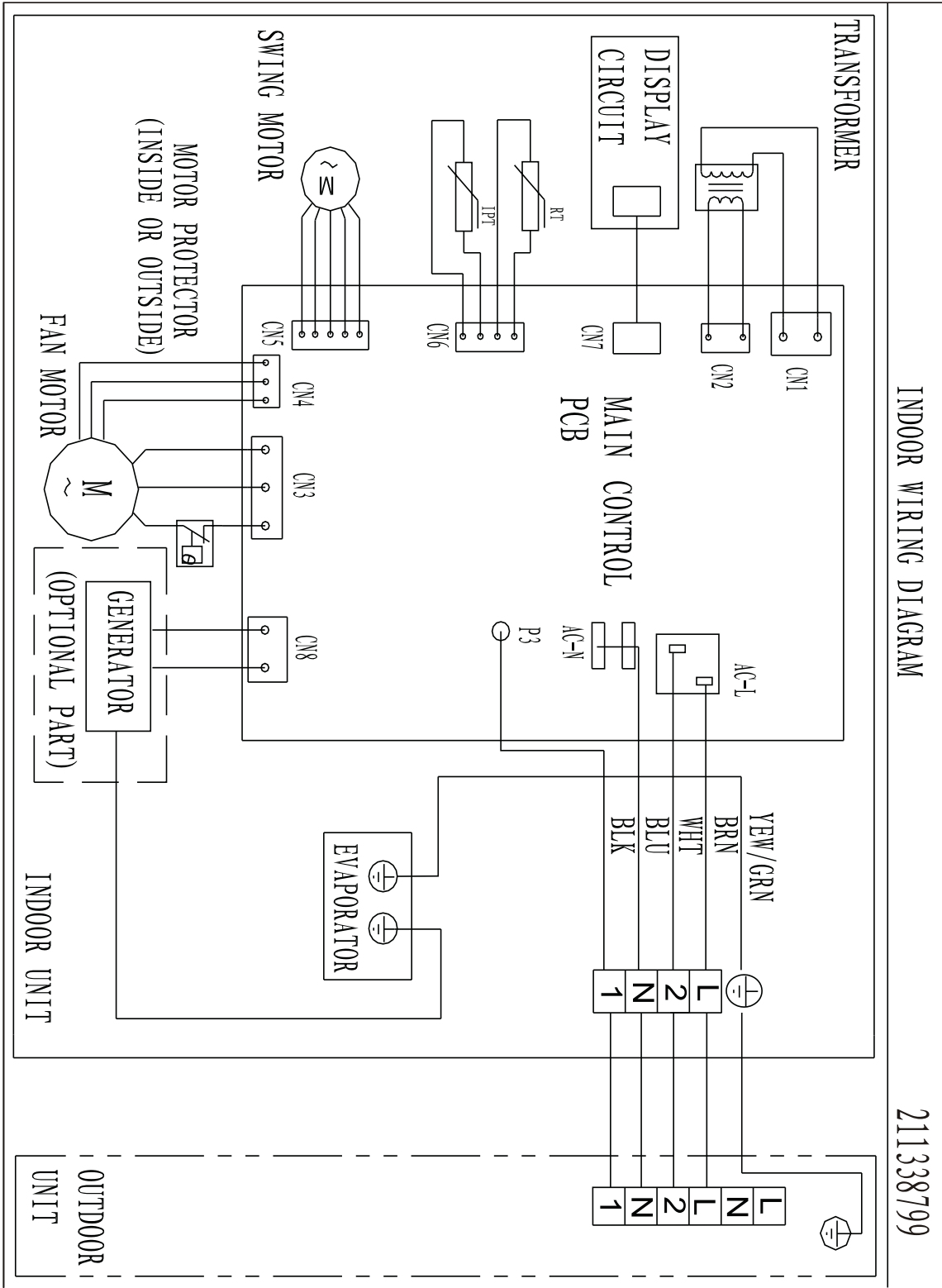
Table of descriptions

1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Power & Comm. wiring conduits	9	
4		10	
5		11	
6		12	

# 5 Electrical wiring diagram

Indoor : Inverter(HP)

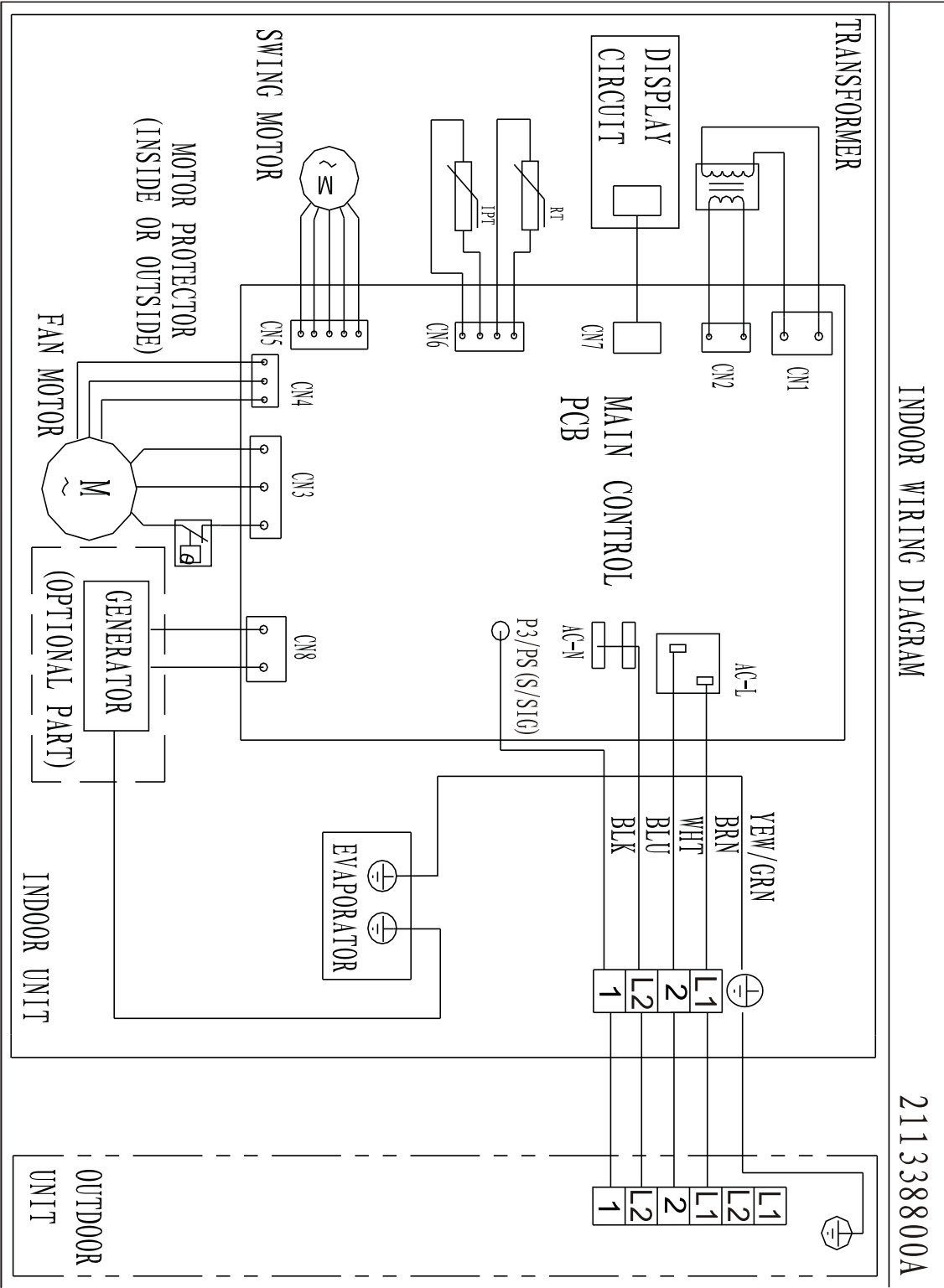
AR09JSALBWKNCV, AR12JSALBWKNCV



# 5 Electrical wiring diagram

## Indoor : Inverter(HP)

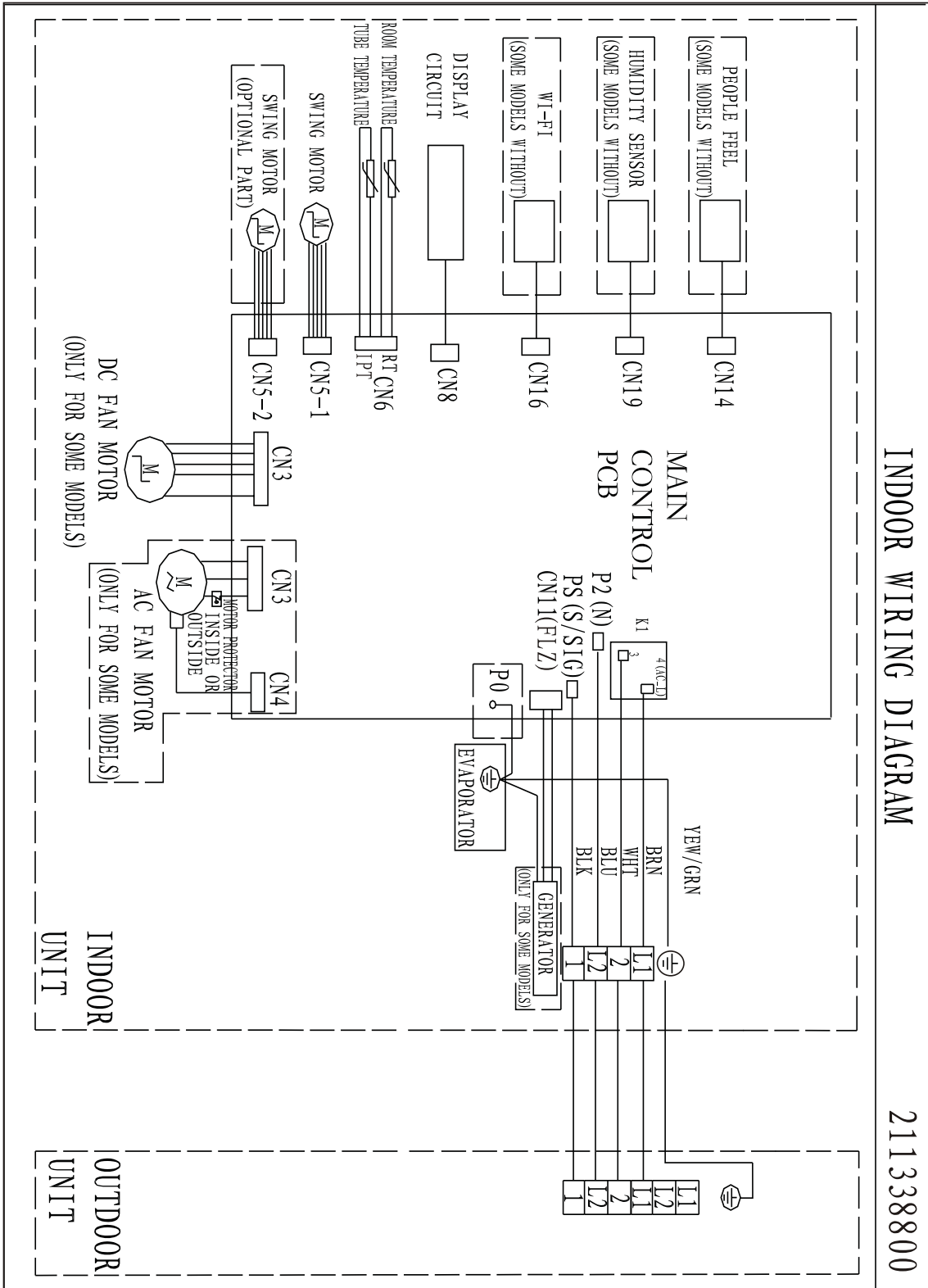
AR09JSFLBWKNVCV, AR12JSFLBWKNVCV



# 5 Electrical wiring diagram

## Indoor : Inverter(HP)

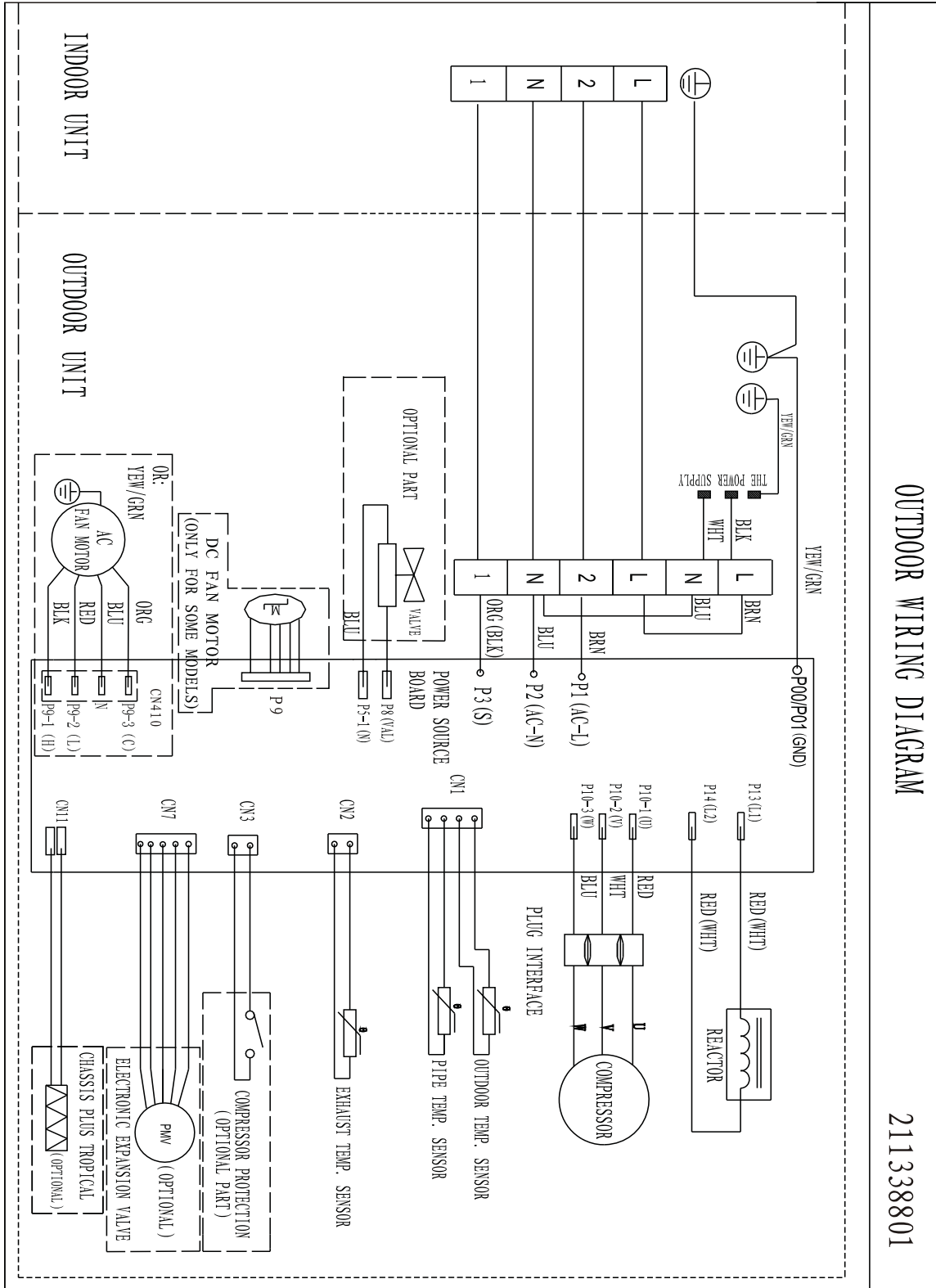
AR18JSFLBWKNVCV, AR24JSFLBWKNVCV



# 5 Electrical wiring diagram

## Outdoor

AR09JSALBWKXCV, AR12JSALBWKXCV

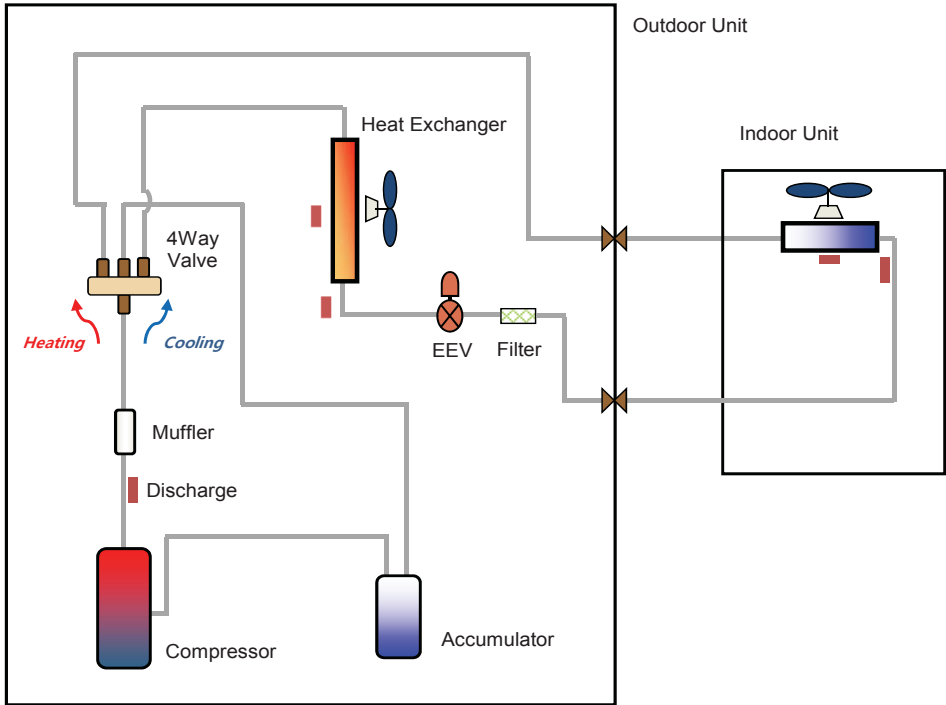




# 6 Cycle diagram

## Outdoor

AR09JSALBWKXCV, AR09JSFLBWKXCV, AR12JSALBWKXCV, AR12JSFLBWKXCV, AR18JSFLBWKXCV, AR24JSFLBWKXCV



Category	Symbol	Description	
Compressor		Rotary Inverter Compressor	
Heat Exchanger		Condensing/Evaporating unit(FMC)	
Accumulator		Accumulator	
Filter		Filter	
Valve	Expansion		Electronic Expansion Valve(EEV)
	Reversing		4 Way valve (Reversing valve)
	Service		Service valve
Sensor	Temperature		Pip/Air Temperature sensor




# Capacity correction

## Outdoor


AR09JSALBWKNCV + AR09JSALBWKXCV  
 AR09JSFLBWKNCV + AR09JSFLBWKXCV  
 AR12JSALBWKNCV + AR12JSALBWKXCV  
 AR12JSFLBWKNCV + AR12JSFLBWKXCV  
 AR18JSFLBWKNCV + AR18JSFLBWKXCV  
 AR24JSFLBWKNCV + AR24JSFLBWKXCV

## Cooling



		Pipe Length (ft)			
		16	33	41	49
Level Difference (ft)	16	0.99	0.97	0.95	0.92
	0	1.00	0.98	0.96	0.93
	-16	0.99	0.97	0.95	0.92

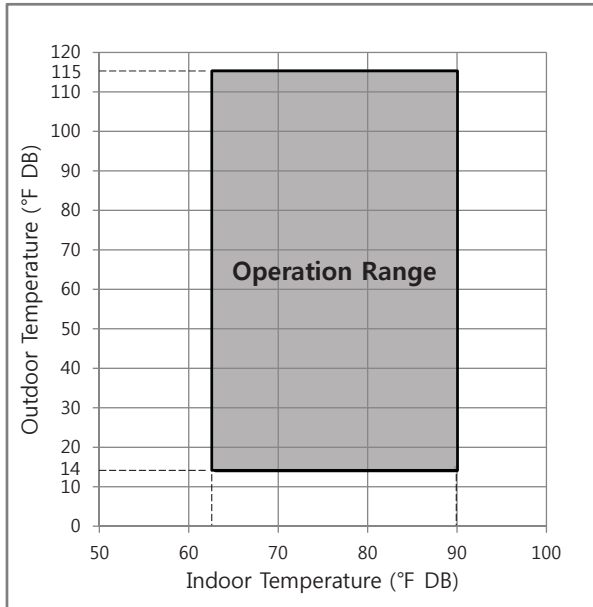
## Heating



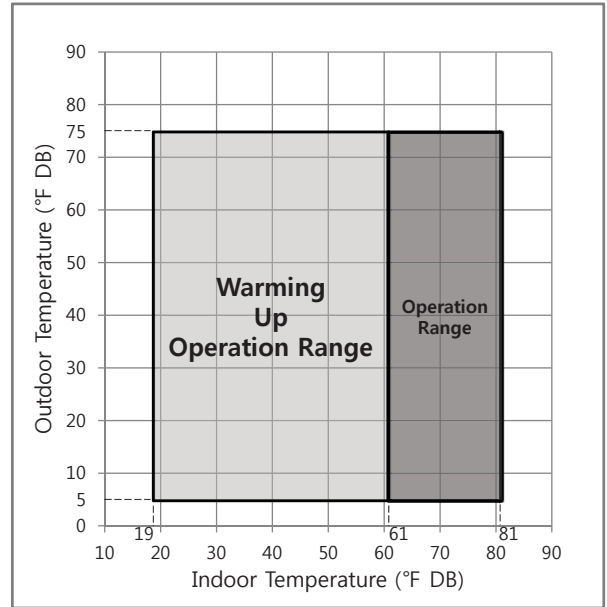
		Pipe Length (ft)			
		16	33	41	49
Level Difference (ft)	16	0.99	0.97	0.95	0.92
	0	1.00	0.98	0.96	0.93
	-16	0.99	0.97	0.95	0.92

# Operation limit

## Cooling



## Heating



# SAMSUNG

2016.03  
Ver. 1.0

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**B2B PM / SE**

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