



*America's Premier Climate Comfort Brand since 1895*

# **Submittal:**

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Models: LI012CI-230P432 / LI012CO-230P432  
LI018CI-230P432 / LI018CO-230P432  
LI024CI-230P432 / LI024CO-230P432  
(Refrigerant R410A)

Thank you for selecting LENNOX air conditioners.

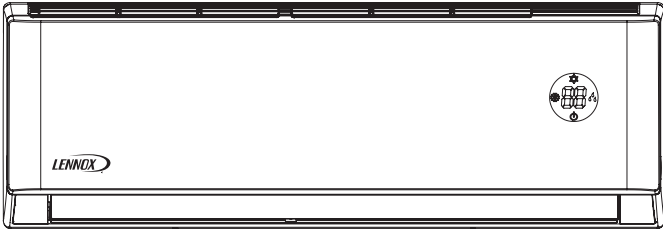


# Submittal 23 SEER 60Hz

## 1. Summary

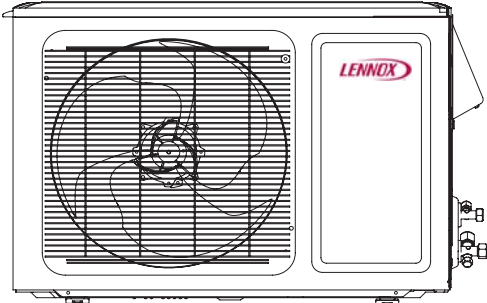
### Indoor Unit

- LI012CI-230P432
- LI018CI-230P432
- LI024CI-230P432

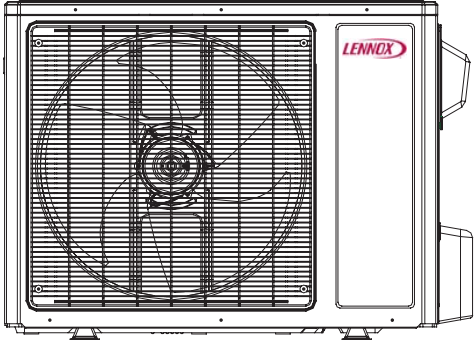


### Outdoor Unit

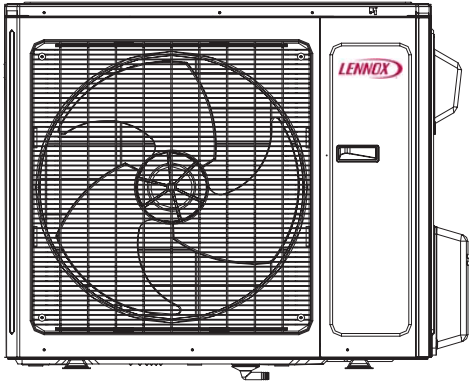
- LI012CO-230P432



- LI018CO-230P432



- LI024CO-230P432



### Remote Controller

- Y6334



## 2. Specifications

### 2.1 Specification Sheet

Model		LI012CI-230P432/LI012CO-230P432	
Product Code		Y6509/Y6510	
Power Supply	Rated Voltage	V~	208/230
	Rated Frequency	Hz	60
	Phases		1
Power Supply Mode		Outdoor	
Cooling Capacity(Min~Max)	Btu/h	12000(3100~13000)	
Heating Capacity(Min~Max)	Btu/h	/	
Cooling Power Input(Min~Max)	W	923(200~1350)	
Heating Power Input(Min~Max)	W	/	
Cooling Power Current	A	4.50	
Heating Power Current	A	/	
Rated Input	W	1350	
Rated Current	A	6.0	
Air Flow Volume(SH/H/M/L)	CFM	400/288/241/171	
Dehumidifying Volume	Pint/h	2.96	
EER	(Btu/h)/W	12.5	
COP	(Btu/h)/W	/	
SEER		22.0	
HSPF		/	
Application Area	yd <sup>2</sup>	19.14-28.70	
Indoor Unit	Model of indoor unit		LI012CI-230P432
	Indoor Unit Product Code		Y6509
	Fan Type		Cross-flow
	Diameter Length(DXL)	inch	Φ3 55/64X25
	Fan Motor Cooling Speed(SH/H/M/L)	r/min	1400/1200/1050/800
	Fan Motor Heating Speed(SH/H/M/L)	r/min	/
	Output of Fan Motor	W	20
	Fan Motor RLA	A	0.09
	Fan Motor Capacitor	μF	/
	Evaporator Form		Aluminum Fin-copper Tube
	Pipe Diameter	inch	Φ9/32
	Row-fin Gap	inch	2-1/18
	Coil Length (LXDXW)	inch	25X7/8X12 1/16
	Swing Motor Model		MP24BA
	Output of Swing Motor	W	1.5
	Fuse	A	3.15
	Sound Pressure Level(SH/H/M/L)	dB (A)	45/39/35/29
	Sound Power Level(SH/H/M/L)	dB (A)	55/49/45/39
	Dimension (WXHXD)	inch	33 1/4X11 3/8X8 7/32
	Dimension of Carton Box (LXWXH)	inch	36 9/64X11X14 21/64
Dimension of Package (LXWXH)	inch	36 1/4X11X15	
Net Weight	lb	22.1	
Gross Weight	lb	26.5	

Outdoor Unit	Model of Outdoor Unit		LI012CO-230P432
	Outdoor Unit Product Code		Y6510
	Compressor Manufacturer/Trademark		ZHUHAI GREE DAIKIN DEVICE CO.,LTD
	Compressor Model		1GDY23AXD
	Compressor Oil		DAPHNE FVC50K
	Compressor Type		Swing
	Compressor Locked Rotor Amp (L.R.A)	A	/
	Compressor RLA	A	4.00
	Compressor Power Input	W	845
	Overload Protector		KSD115°C or HPC115/95
	Throttling Method		Electron expansion valve
	Operation temp	°F	61~86
	Ambient temp (cooling)	°F	0~115
	Ambient temp (heating)	°F	/
	Condenser Form		Aluminum Fin-copper Tube
	Pipe Diameter	inch	Φ3/8
	Rows-fin Gap	inch	2-3/64
	Coil Length (LXDXW)	inch	29 13/32X1 3/4X22
	Fan Motor Speed	rpm	900
	Output of Fan Motor	W	30
	Fan Motor RLA	A	/
	Fan Motor Capacitor	μF	/
	Air Flow Volume of Outdoor Unit	CFM	1177
	Fan Type		Axial-flow
	Fan Diameter	inch	Φ15 3/4
	Defrosting Method		/
	Climate Type		T1
	Isolation		I
	Moisture Protection		IP24
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level (H/M/L)	dB (A)	54/-/-
	Sound Power Level (H/M/L)	dB (A)	64/-/-
Dimension (WXHXD)	inch	33 13/32X23 1/3X12 39/64	
Dimension of Carton Box (LXWXH)	inch	34 37/64X14 1/6X24 13/16	
Dimension of Package (LXWXH)	inch	34 43/64X14 9/32X25 13/32	
Net Weight	lb	80.5	
Gross Weight	lb	87.1	
Refrigerant		R410A	
Refrigerant Charge	oz	47.6	
Connection Pipe	Length	ft	24.6
	Gas Additional Charge	oz/ft	0.2
	Outer Diameter Liquid Pipe	inch	Φ1/4
	Outer Diameter Gas Pipe	inch	Φ1/2
	Max Distance Height	ft	32.8
	Max Distance Length	ft	65.6
Note:The connection pipe applies metric diameter.			

The above data is subject to change without notice. Please refer to the nameplate of the unit.

Model		LI018CI-230P432/LI018CO-230P432
Product Code		Y6511/Y6512
Power Supply	Rated Voltage	V~ 208/230
	Rated Frequency	Hz 60
	Phases	1
Power Supply Mode		Outdoor
Cooling Capacity(Min~Max)	Btu/h	18000(7165~20001)
Heating Capacity(Min~Max)	Btu/h	/
Cooling Power Input(Min~Max)	W	1500(570~2600)
Heating Power Input(Min~Max)	W	/
Cooling Power Current	A	8.65
Heating Power Current	A	/
Rated Input	W	2600
Rated Current	A	11.54
Air Flow Volume(SH/H//M/L)	CFM	559/488/412/335
Dehumidifying Volume	Pint/h	3.8
EER	(Btu/h)/W	12.0
COP	(Btu/h)/W	/
SEER		20
HSPF		/
Application Area	yd <sup>2</sup>	27.51-40.66
Indoor Unit	Model of indoor unit	LI018CI-230P432
	Indoor Unit Product Code	Y6511
	Fan Type	Cross-flow
	Diameter Length(DXL)	inch Φ4 1/6X27 13/16
	Fan Motor Cooling Speed(SH/H//M/L)	r/min 1400/1200/1050/800
	Fan Motor Heating Speed(SH/H//M/L)	r/min /
	Output of Fan Motor	W 60
	Fan Motor RLA	A 0.24
	Fan Motor Capacitor	μF /
	Evaporator Form	Aluminum Fin-copper Tube
	Pipe Diameter	inch Φ9/32
	Row-fin Gap	inch 2-1/18
	Coil Length (LXDXW)	inch 28 9/64X1X12
	Swing Motor Model	MP35CJ
	Output of Swing Motor	W 2.5
	Fuse	A 3.15
	Sound Pressure Level(SH/H//M/L)	dB (A) 47/43/39/35
	Sound Power Level(SH/H//M/L)	dB (A) 57/53/49/45
	Dimension (WXHXD)	inch 38 13/64X11 13/16X8 5/6
	Dimension of Carton Box (LXWXH)	inch 40 55/64X15X12
Dimension of Package (LXWXH)	inch 41X15X12 39/64	
Net Weight	lb 27.6	
Gross Weight	lb 34.2	

Outdoor Unit	Model of Outdoor Unit		LI018CO-230P432
	Outdoor Unit Product Code		Y6512
	Compressor Manufacturer/Trademark		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QXA-B141zF030A
	Compressor Oil		RB68EP
	Compressor Type		Rotary
	Compressor Locked Rotor Amp (L.R.A)	A	/
	Compressor RLA	A	7.20
	Compressor Power Input	W	1440
	Overload Protector		1NT11L-6233 or KSD115°C or HPC115/95U1
	Throttling Method		Electron expansion valve
	Operation temp	°F	61~86
	Ambient temp (cooling)	°F	0~115
	Ambient temp (heating)	°F	/
	Condenser Form		Aluminum Fin-copper Tube
	Pipe Diameter	inch	Φ3/8
	Rows-fin Gap	inch	2-1/18
	Coil Length (LXDXW)	inch	34 5/32X1 47/64X25 63/64
	Fan Motor Speed	rpm	750
	Output of Fan Motor	W	60
	Fan Motor RLA	A	0.365
	Fan Motor Capacitor	μF	/
	Air Flow Volume of Outdoor Unit	CFM	1883
	Fan Type		Axial-flow
	Fan Diameter	inch	Φ20 1/2
	Defrosting Method		/
	Climate Type		T1
	Isolation		I
	Moisture Protection		IP24
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level (H/M/L)	dB (A)	55/-/-
	Sound Power Level (H/M/L)	dB (A)	65/-/-
Dimension (WXHXD)	inch	38X27 35/64X15 39/64	
Dimension of Carton Box (LXWXH)	inch	40 13/32X17 57/64X29	
Dimension of Package (LXWXH)	inch	40 1/2X18X29 1/2	
Net Weight	lb	110.3	
Gross Weight	lb	120.2	
Refrigerant		R410A	
Refrigerant Charge	oz	60.0	
Connection Pipe	Length	ft	24.6
	Gas Additional Charge	oz/ft	0.2
	Outer Diameter Liquid Pipe	inch	Φ1/4
	Outer Diameter Gas Pipe	inch	Φ1/2
	Max Distance Height	ft	32.8
	Max Distance Length	ft	82
Note:The connection pipe applies metric diameter.			

The above data is subject to change without notice; please refer to the nameplate of the unit.

Model			LI024CI-230P432/LI024CO-230P432	
Product Code			Y6513/Y6514	
Power Supply	Rated Voltage	V~	208/230	
	Rated Frequency	Hz	60	
	Phases		1	
Power Supply Mode			Outdoor	
Cooling Capacity(Min~Max)		Btu/h	22000(6824~27296)	
Heating Capacity(Min~Max)		Btu/h	/	
Cooling Power Input(Min~Max)		W	1830(450~3000)	
Heating Power Input(Min~Max)		W	/	
Cooling Power Current		A	8.05	
Heating Power Current		A	/	
Rated Input		W	3000	
Rated Current		A	14.49	
Air Flow Volume(SH/H//M/L)		CFM	706/647/589/530	
Dehumidifying Volume		Pint/h	4.23	
EER		(Btu/h)/W	12.02	
COP		(Btu/h)/W	/	
SEER			20	
HSPF			/	
Application Area		yd <sup>2</sup>	32.29-50.23	
Indoor Unit	Model of indoor unit		LI024CI-230P432	
	Indoor Unit Product Code		Y6513	
	Fan Type		Cross-flow	
	Diameter Length(DXL)		inch	Φ4 1/4X32 7/10
	Fan Motor Cooling Speed(SH/H//M/L)		r/min	1300/1100/900/850
	Fan Motor Heating Speed(SH/H//M/L)		r/min	/
	Output of Fan Motor		W	60
	Fan Motor RLA		A	0.38
	Fan Motor Capacitor		μF	0
	Evaporator Form			Aluminum Fin-copper Tube
	Pipe Diameter		inch	Φ9/32
	Row-fin Gap		inch	2-1/16
	Coil Length (LXDXW)		inch	33 1/4X1X13 1/2
	Swing Motor Model			MP35CJ
	Output of Swing Motor		W	2.5
	Fuse		A	3.15
	Sound Pressure Level(SH/H//M/L)		dB (A)	48/44/40/36
	Sound Power Level(SH/H//M/L)		dB (A)	58/54/50/46
	Dimension (WXHDX)		inch	42 7/16X12 13/16X9 43/64
	Dimension of Carton Box (LXWXH)		inch	45X16 9/64X13 13/64
Dimension of Package (LXWXH)		inch	45 13/64X16 1/4X13 25/32	
Net Weight		lb	34.2	
Gross Weight		lb	41.9	

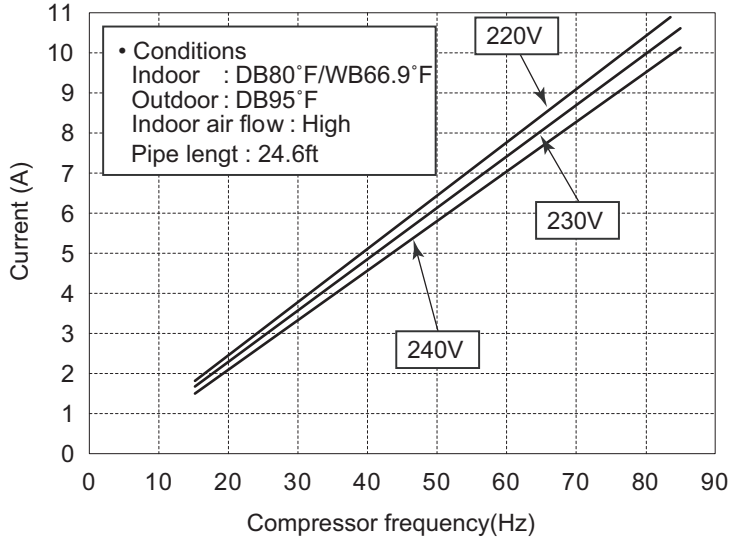
Outdoor Unit	Model of Outdoor Unit		LI024CO-230P432	
	Outdoor Unit Product Code		Y6514	
	Compressor Manufacturer/Trademark		ZHUHAI LANDA COMPRESSOR CO.,LTD.	
	Compressor Model		QXAS-D23zX090A	
	Compressor Oil		RB68EP	
	Compressor Type		Rotary	
	Compressor Locked Rotor Amp (L.R.A)	A		25
	Compressor RLA	A		11.50
	Compressor Power Input	W		2550
	Overload Protector			1NT11L-6233/HPC 115/95 /KSD115°C
	Throttling Method			Electron expansion valve
	Operation temp	°F		61~86
	Ambient temp (cooling)	°F		0~115
	Ambient temp (heating)	°F		/
	Condenser Form			Aluminum Fin-copper Tube
	Pipe Diameter	inch		Φ9/32
	Rows-fin Gap	inch		2-1/18
	Coil Length (LXDXW)	inch		37 31/64X1 1/2X19/32
	Fan Motor Speed	rpm		820
	Output of Fan Motor	W		92
	Fan Motor RLA	A		0.65
	Fan Motor Capacitor	μF		/
	Air Flow Volume of Outdoor Unit	CFM		2354
	Fan Type			Axial-flow
	Fan Diameter	inch		Φ21 43/64
	Defrosting Method			/
	Climate Type			T1
	Isolation			I
	Moisture Protection			IP24
	Permissible Excessive Operating Pressure for the Discharge Side	MPa		4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa		2.5
	Sound Pressure Level (H/M/L)	dB (A)		59/-/-
	Sound Power Level (H/M/L)	dB (A)		69/-/-
Dimension (WXHXD)	inch		39 3/8X31 7/64X16 13/16	
Dimension of Carton Box (LXWXH)	inch		42 1/2X19X33	
Dimension of Package (LXWXH)	inch		42 23X1913/64X33 43/64	
Net Weight	lb		136.7	
Gross Weight	lb		147.7	
Refrigerant			R410A	
Refrigerant Charge	oz		70.6	
Connection Pipe	Length	ft	24.6	
	Gas Additional Charge	oz/ft	0.2	
	Outer Diameter Liquid Pipe	inch	Φ1/4	
	Outer Diameter Gas Pipe	inch	Φ5/8	
	Max Distance Height	ft	32.8	
	Max Distance Length	ft	82	
Note:The connection pipe applies metric diameter.				

The above data is subject to change without notice; please refer to the nameplate of the unit.



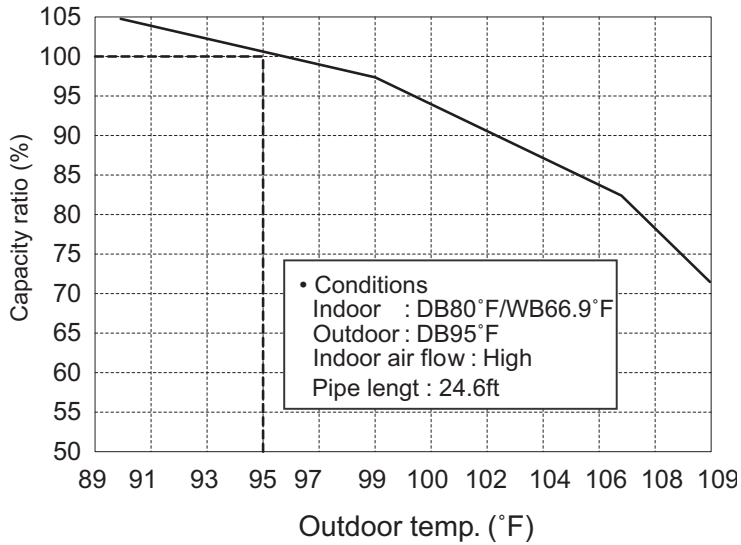
## 2.2 Operation Curve

Cooling



## 2.3 Capacity Variation Ratio According to Temperature

Cooling



## 2.4 Cooling and Heating Data Sheet in Rated Frequency

### Cooling:

Rated cooling condition(°F) (DB/WB)		Model	Pressure of gas pipe connecting indoor and outdoor unit P (MPa)	Inlet and outlet pipe temperature of heat exchanger		Fan speed of indoor unit	Fan speed of outdoor unit	Compressor revolution (rps)
Indoor	Outdoor			T1 (°F)	T2 (°F)			
80/66.9	95/-	12K	0.9~1.0	in:46.4~51.8 out:51.8~57.2	in:167~181.4 out:98.6~118.4	Super High	High	72
80/66.9	95/-	18K	0.9~1.0	in:46.4~51.8 out:51.8~57.2	in:167~181.4 out:98.6~118.4	Super High	High	73
80/66.9	95/-	24K	0.9~1.0	in:46.4~51.8 out:51.8~57.2	in:167~181.4 out:98.6~118.4	Super High	High	75

#### Instruction:

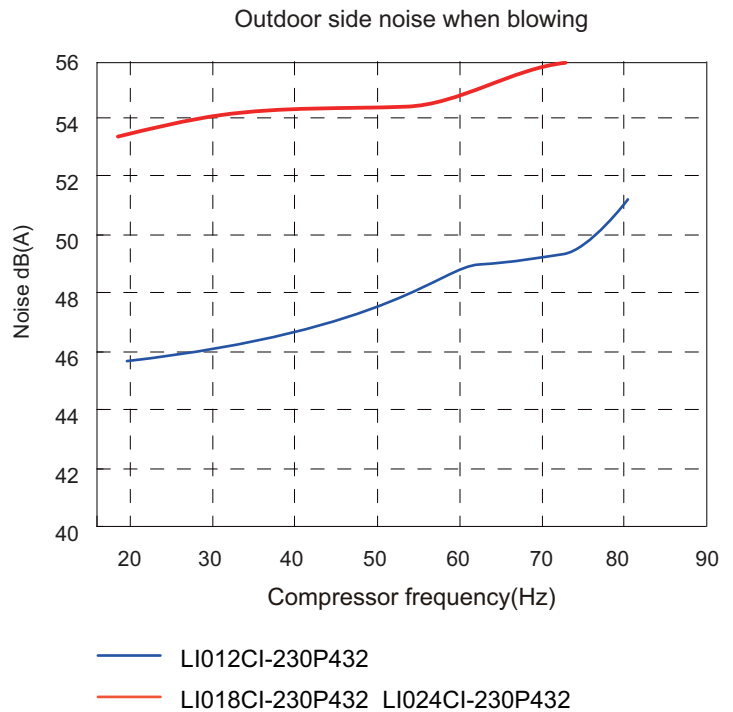
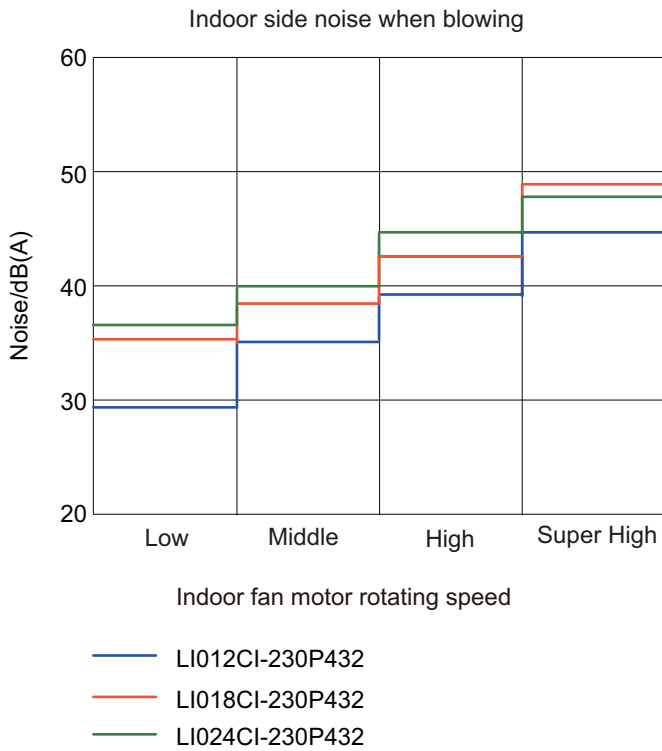
T1: Inlet and outlet pipe temperature of evaporator

T2: Inlet and outlet pipe temperature of condenser

P: Pressure at the side of big valve

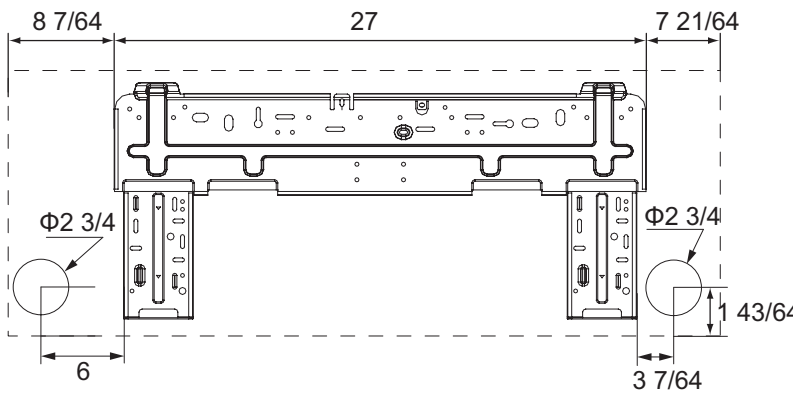
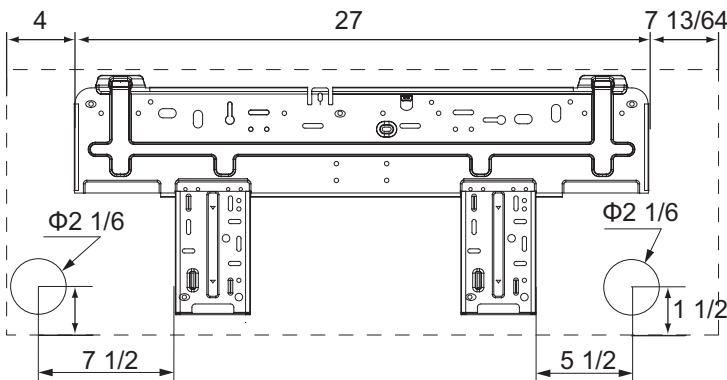
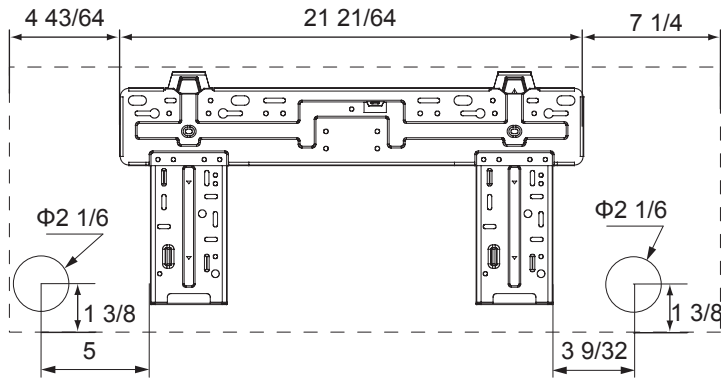
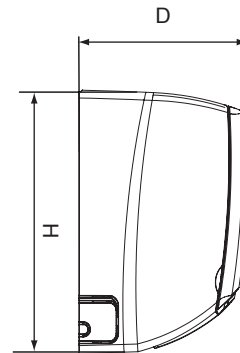
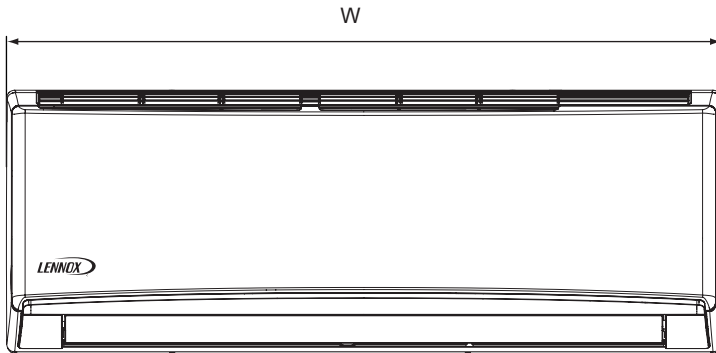
Connection pipe length: 24.6ft.

## 2.5 Noise Curve



# 3. Dimensions

## 3.1 Indoor Unit

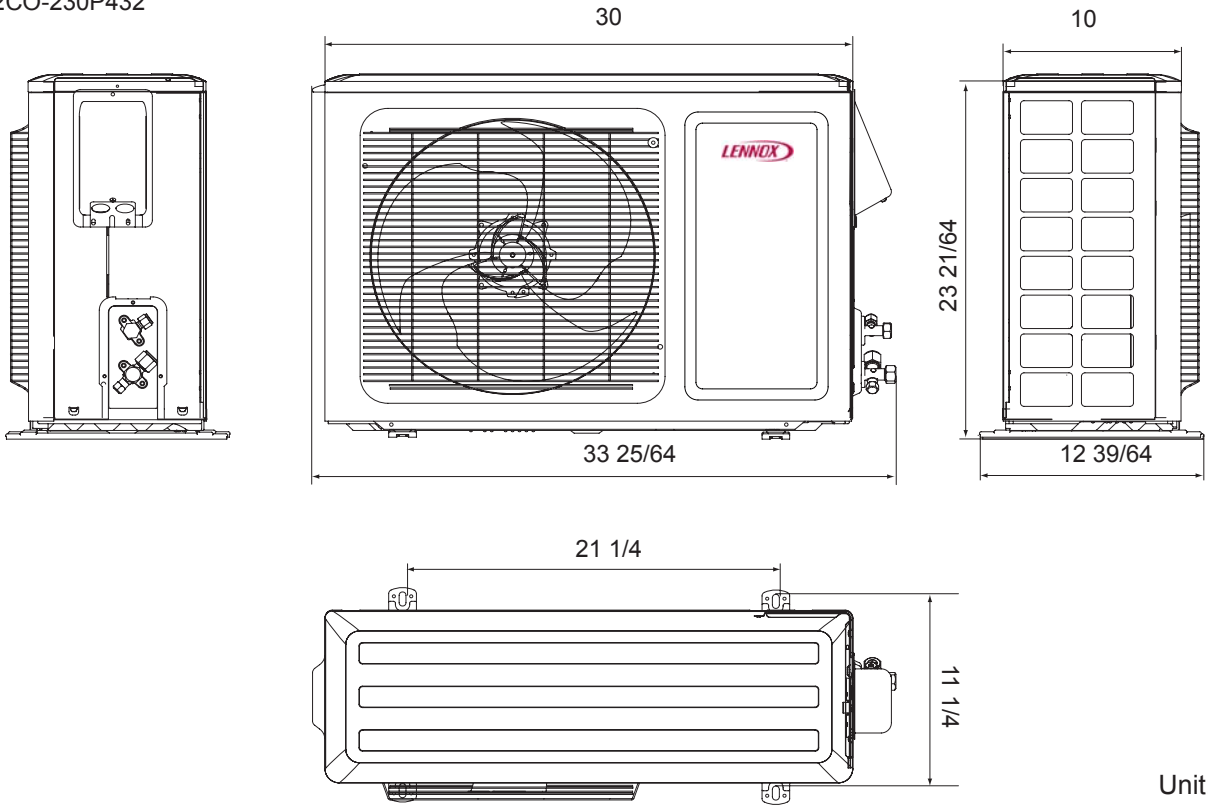


Unit:inch

Models	W	H	D
LI012CI-230P432	$33 \frac{1}{4}$	$11 \frac{3}{8}$	$8 \frac{7}{32}$
LI018CI-230P432	$38 \frac{13}{64}$	$11 \frac{51}{64}$	$8 \frac{5}{6}$
LI024CI-230P432	$42 \frac{7}{16}$	$12 \frac{51}{64}$	$9 \frac{43}{64}$

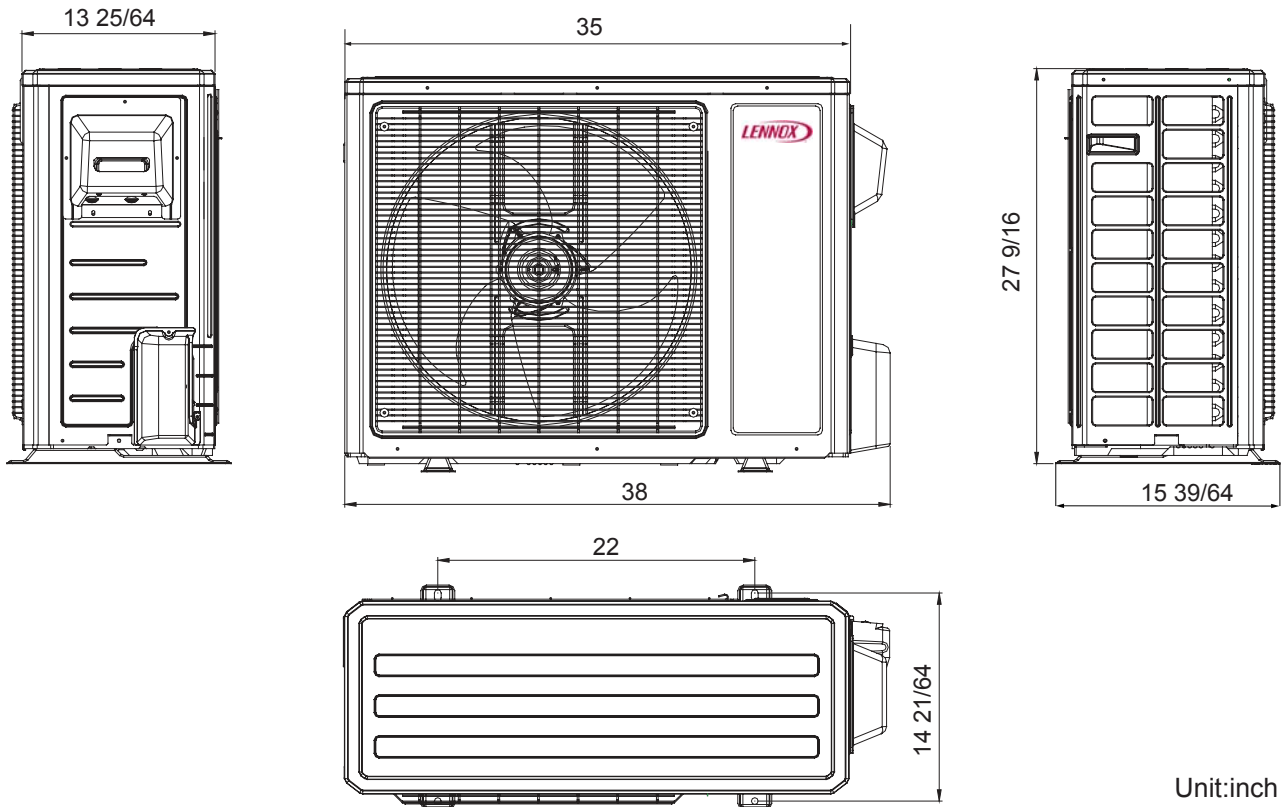
## 3.2 Outdoor Unit

LI012CO-230P432



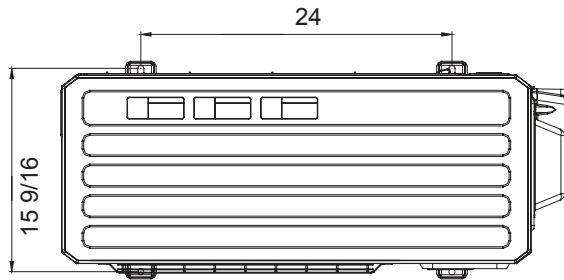
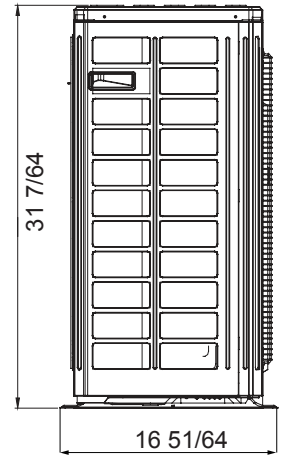
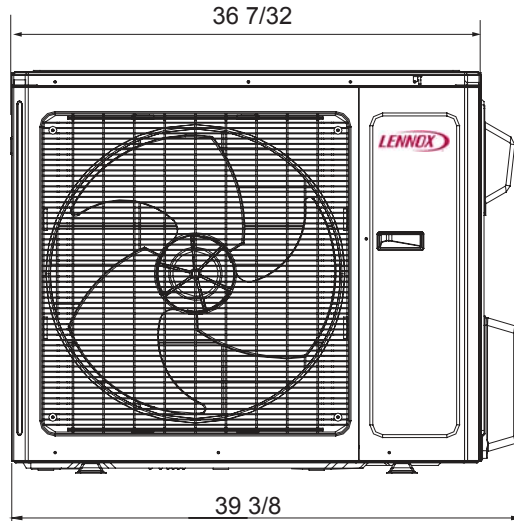
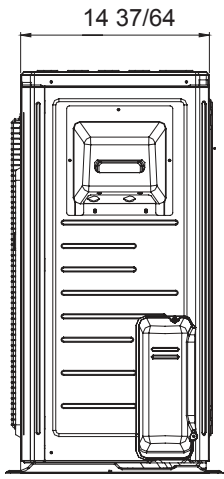
Unit:inch

LI018CO-230P432



Unit:inch

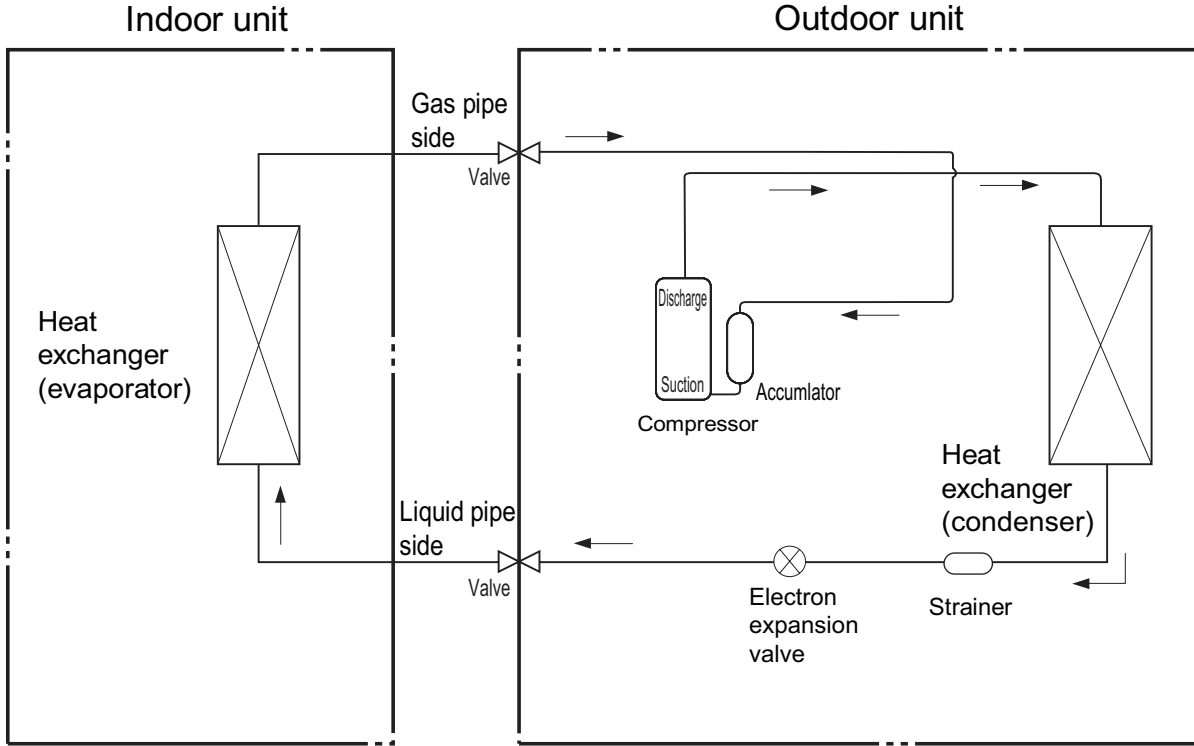
LI024CO-230P432



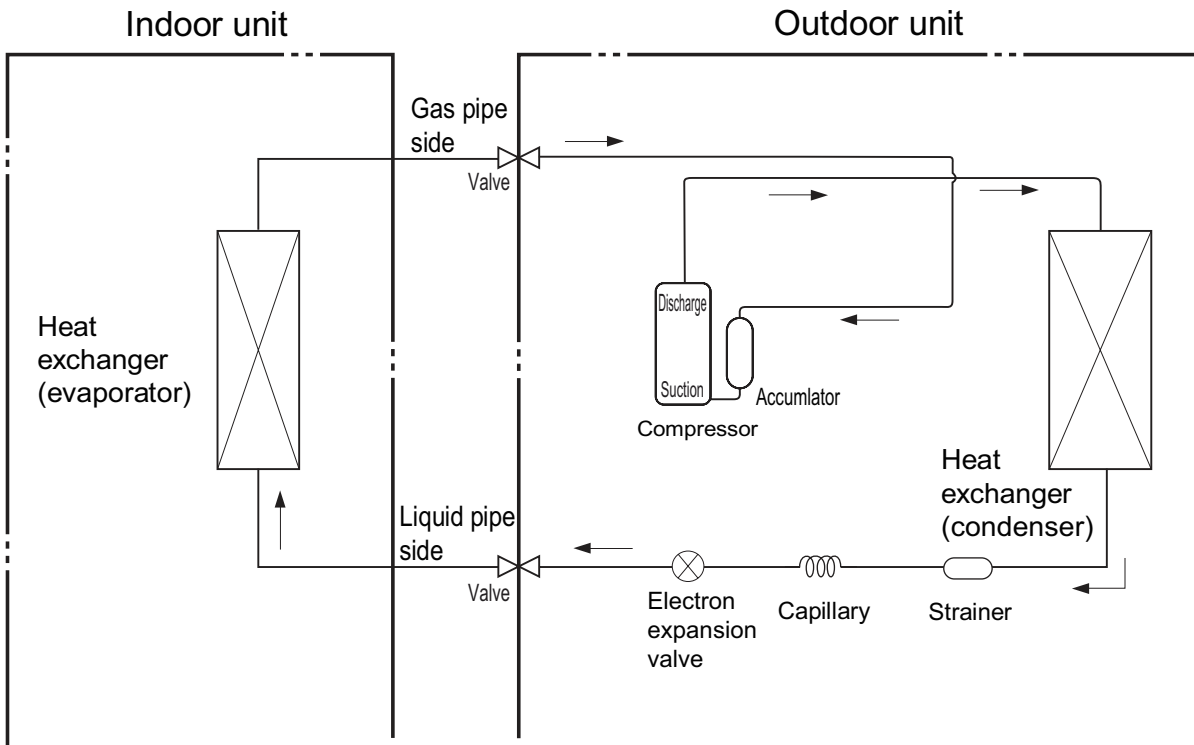
Unit:inch

# 4. Refrigerant System Diagram

LI012CI-230P432/LI012CO-230P432



LI018CI-230P432/LI018CO-230P432 LI024CI-230P432/LI024CO-230P432



Connection pipe specification:

Liquid pipe: 1/4"

Gas pipe: 1/2" (LI012CI-230P432/LI012CO-230P432 LI018CI-230P432/LI018CO-230P432)

Gas pipe: 5/8" (LI024CI-230P432/LI024CO-230P432)

# 5. Electrical Part

## 5.1 Wiring Diagram

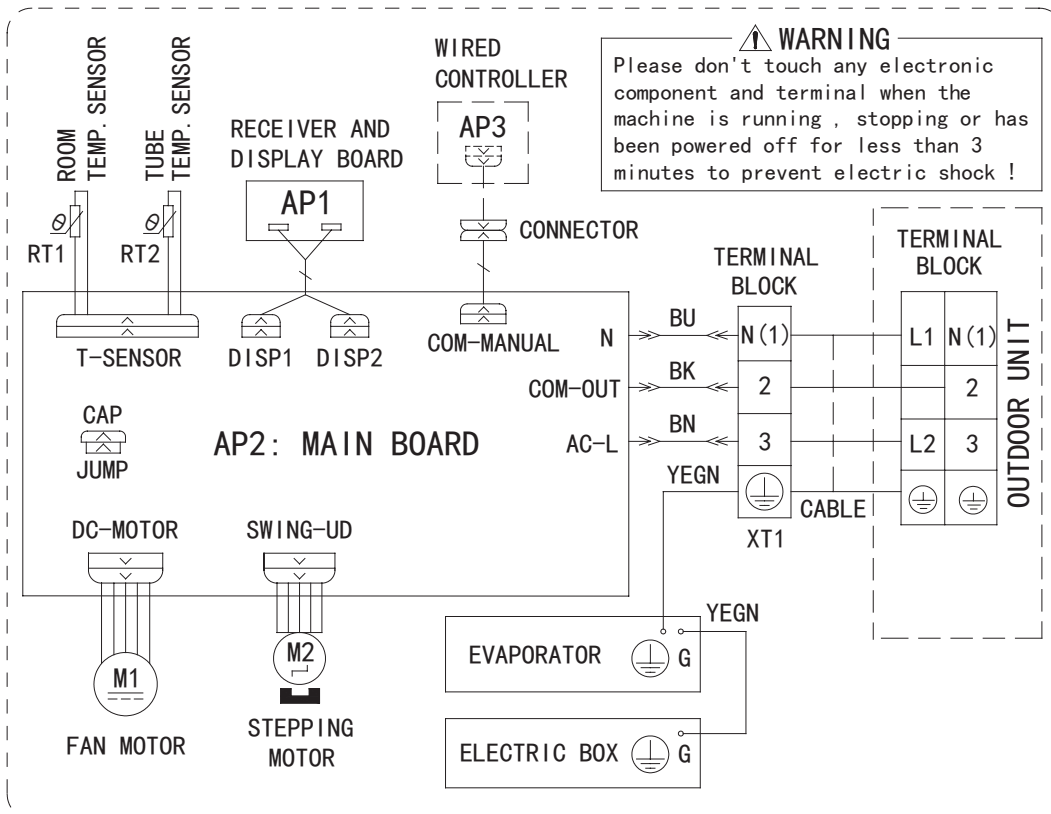
- Instruction

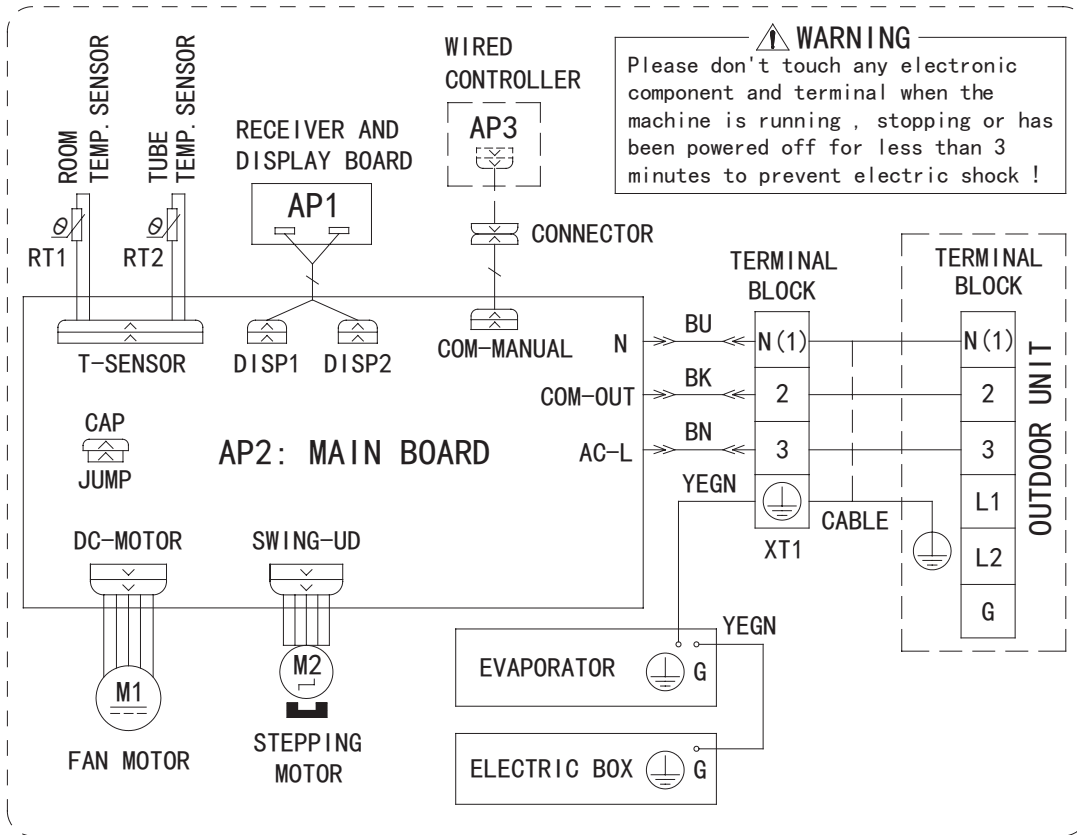
Symbol	Symbol Color	Symbol	Symbol Color	Symbol	Name
WH	White	GN	Green	CAP	Jumper cap
YE	Yellow	BN	Brown	COMP	Compressor
RD	Red	BU	Blue		Grounding wire
YEGN	Yellow/Green	BK	Black	/	/
VT	Violet	OG	Orange	/	/

Note: Jumper cap is used to determine fan speed and the swing angle of horizontal lover for this model.

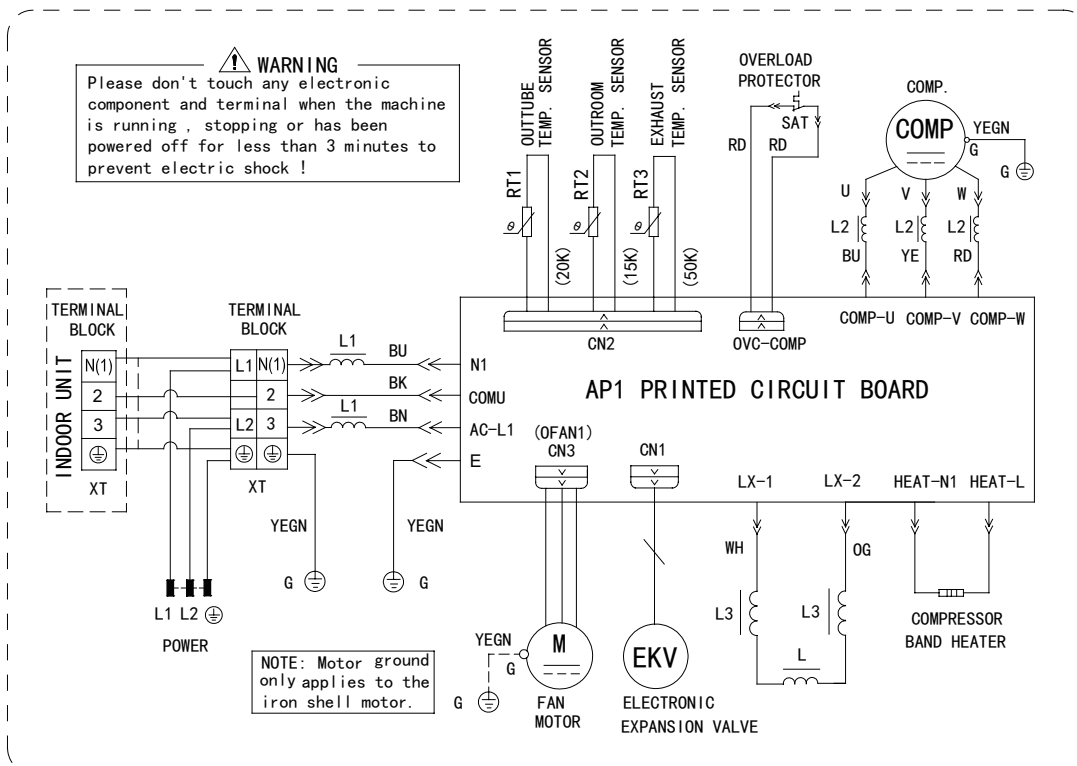
- Indoor Unit

LI012CI-230P432

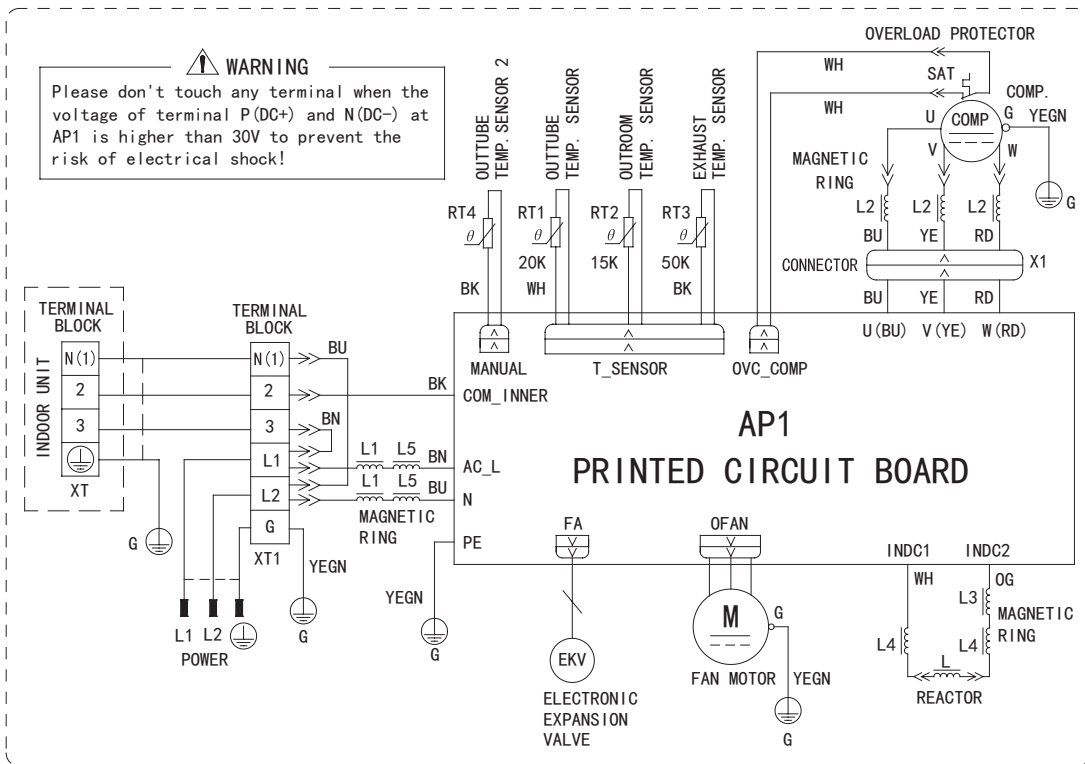
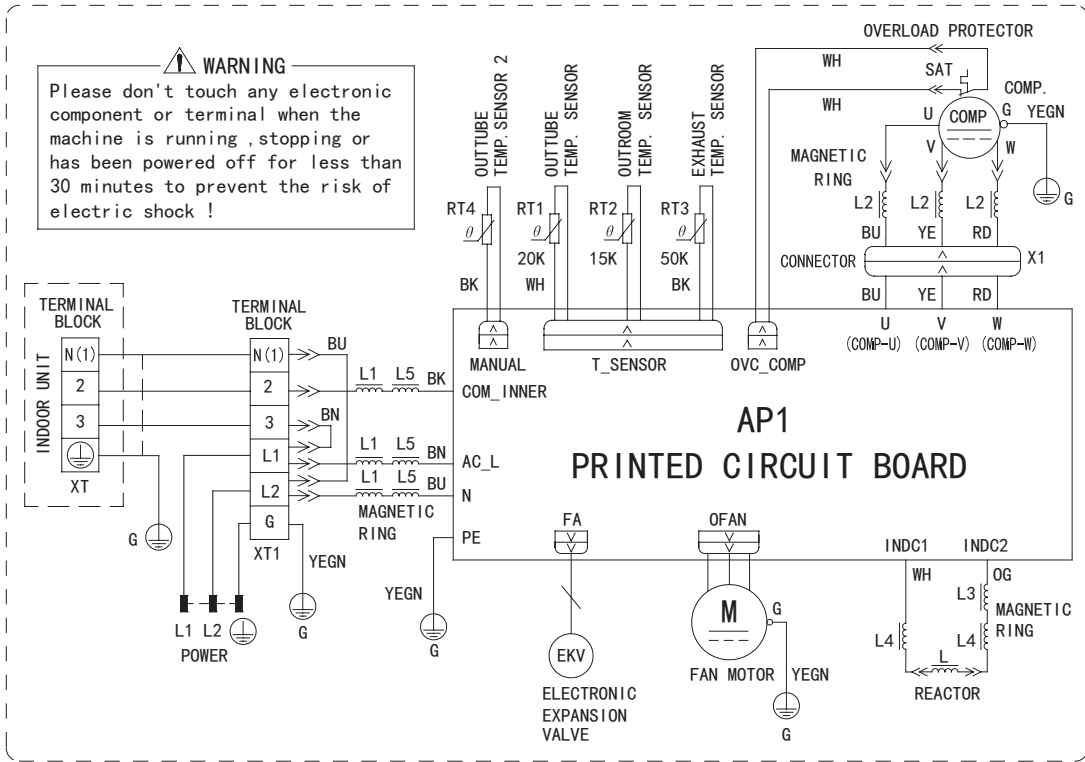




• Outdoor Unit







These circuit diagrams are subject to change without notice, please refer to the one supplied with the unit.