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Submittal:

Models: LI009HI-160T432 LI009HO-160T432
LI012HI-160T432 LI012HO-160T432
LI018HI-160T432 LI018HO-160T432
LI024HI-160T432 LI024HO-160T432
(Refrigerant R410A)

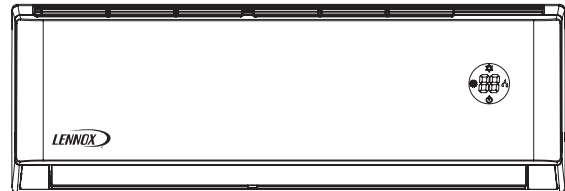
Thank you for selecting LENNOX air conditioners.

Submittal R410A 50Hz Inverter

1. Summary

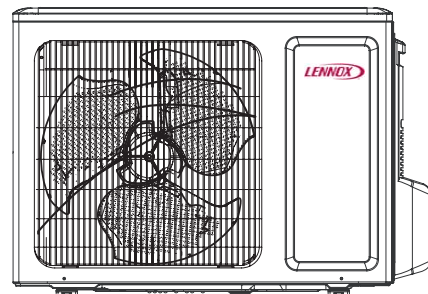
Indoor Unit

- LI009HI-160T432
- LI012HI-160T432
- LI018HI-160T432
- LI024HI-160T432

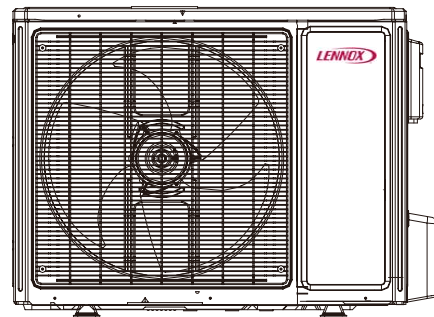


Outdoor Unit

- LI009HO-160T432
- LI012HO-160T432



- LI018HO-160T432
- LI024HO-160T432



Remote Controller

- Y6334



2. Specifications

2.1 Specification Sheet

Parameter		Unit	Value		
Model			LI009HI-160T432 LI009HO-160T432	LI012HI-160T432 LI012HO-160T432	
Product Code			Y6732 Y6733	Y6734 Y6735	
Power Supply	Rated Voltage	V~	220-240	220-240	
	Rated Frequency	Hz	50	50	
	Phases		1	1	
Power Supply Mode			Outdoor	Outdoor	
Cooling Capacity(Min~Max)		W	2600(450~3230)	3500(600~3960)	
Heating Capacity(Min~Max)		W	2800(450~4100)	3670(600~5130)	
Cooling Power Input(Min~Max)		W	805(200~1420)	1084(200~1550)	
Heating Power Input(Min~Max)		W	755(200~1550)	989(220~1650)	
Cooling Current Input		A	3.7	5.2	
Heating Current Input		A	3.4	5.0	
Rated Input		W	1550	1650	
Rated Current		A	6.9	7.3	
Air Flow Volume(SH/H/M//L/SL)		m ³ /h	560/490/430/330/-	660/540/460/330/-	
Dehumidifying Volume		L/h	0.8	1.4	
EER		W/W	3.23	3.23	
COP		W/W	3.71	3.71	
SEER		W/W	6.1	6.1	
SCOP		W/W	4.0	4.0	
Application Area		m ²	12-18	16-24	
Indoor Unit	Indoor Unit Model		LI009HI-160T432	LI012HI-160T432	
	Indoor Unit Product Code		Y6732	Y6734	
	Fan Type		Cross-flow	Cross-flow	
	Fan Diameter Length(DXL)		mm	Φ98X580	Φ98X633.5
	Cooling Speed(SH/H/M//L/SL)		r/min	1300/1200/1050/800/-	1350/1200/1050/850/-
	Heating Speed(SH/H/M//L/SL)		r/min	1300/1200/1050/900/-	1300/1150/1000/900/-
	Fan Motor Power Output		W	20	20
	Fan Motor RLA		A	0.215	0.31
	Fan Motor Capacitor		μF	1	1.5
	Evaporator Form			Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter		mm	Φ5	Φ5
	Evaporator Row-fin Gap		mm	2-1.4	2-1.4
	Evaporator Coil Length (LXD _X W)		mm	584X22.8X266.7	635X22.8X306.3
	Swing Motor Model			MP24AA	MP24BA
	Swing Motor Power Output		W	1.5	1.5
	Fuse Current		A	3.15	3.15
	Sound Pressure Level(SH/H/M//L/SL)		dB (A)	39/36/32/26/-	42/39/33/26/-
	Sound Power Level(SH/H/M//L/SL)		dB (A)	55/52/44/38/-	57/53/45/42/-
	Dimension (WXHXD)		mm	790X275X200	845X289X209
	Dimension of Carton Box (LXWXH)		mm	863X268X352	918X278X364
Dimension of Package(LXWXH)		mm	866X271X367	921X281X379	
Net Weight		kg	9	10	
Gross Weight		kg	11	12	

Outdoor Unit	Outdoor Unit Model		LI009HO-160T432	LI012HO-160T432
	Outdoor Unit Product Code		Y6733	Y6735
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD.	ZHUHAI LANDA COMPRESSOR CO.,LTD.
	Compressor Model		QXA-A086zC190	QXA-A086zC190
	Compressor Oil		RB68EP	RB68EP
	Compressor Type		Rotary	Rotary
	Compressor LRA.	A	40	40
	Compressor RLA	A	3.1	3.1
	Compressor Power Input	W	850	850
	Compressor Overload Protector		1NT11L-6233	1NT11L-6233
	Throttling Method		Electron expansion valve+Capillary	Electron expansion valve+Capillary
	Set Temperature Range	°C	16~30	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43	-15~43
	Heating Operation Ambient Temperature Range	°C	-20~24	-20~24
	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7	Φ7
	Condenser Rows-fin Gap	mm	1-1.4	2-1.4
	Condenser Coil Length (LXDXW)	mm	710X19.05X508	710X38.1X506
	Fan Motor Speed	rpm	900	900
	Fan Motor Power Output	W	30	30
	Fan Motor RLA	A	0.36	0.36
	Fan Motor Capacitor	μF	/	/
	Outdoor Unit Air Flow Volume	m ³ /h	1600	1600
	Fan Type		Axial-flow	Axial-flow
	Fan Diameter	mm	Φ400	Φ400
	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	4.3	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5	2.5
	Sound Pressure Level (H/M/L)	dB (A)	52/-/-	53/-/-
	Sound Power Level (H/M/L)	dB (A)	61/-/-	62/-/-
Dimension(WXHXD)	mm	776X540X320	776X540X320	
Dimension of Carton Box (LXWXH)	mm	848X360X580	848X360X580	
Dimension of Package(LXWXH)	mm	851X363X595	851X363X595	
Net Weight	kg	28	29	
Gross Weight	kg	31	32	
Refrigerant		R410A	R410A	
Refrigerant Charge	kg	0.7	0.85	
Connection Pipe	Connection Pipe Length	m	5	5
	Connection Pipe Gas Additional Charge	g/m	20	20
	Outer Diameter Liquid Pipe	mm	Φ6	Φ6
	Outer Diameter Gas Pipe	mm	Φ9.52	Φ9.52
	Max Distance Height	m	10	10
	Max Distance Length	m	15	20
Note: The connection pipe applies metric diameter.				

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

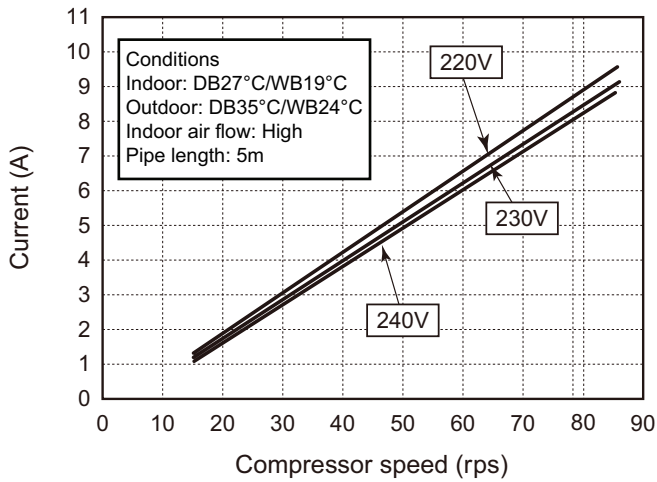
Parameter		Unit	Value		
Model			LI018HI-160T432 LI018HO-160T432	LI024HI-160T432 LI024HO-160T432	
Product Code			Y6736 Y6737	Y6738 Y6739	
Power Supply	Rated Voltage	V~	220-240	220-240	
	Rated Frequency	Hz	50	50	
	Phases		1	1	
Power Supply Mode			Outdoor	Outdoor	
Cooling Capacity(Min~Max)		W	5130(1260~6600)	6700(2000~8200)	
Heating Capacity(Min~Max)		W	5275(1120~6800)	7250(2000~8500)	
Cooling Power Input(Min~Max)		W	1580(380~2450)	1875(400~3700)	
Heating Power Input(Min~Max)		W	1410(350~2600)	1945(450~3800)	
Cooling Current Input		A	7.0	8.32	
Heating Current Input		A	6.3	8.63	
Rated Input		W	2600	3800	
Rated Current		A	11.5	16.86	
Air Flow Volume(SH/H/M//L/SL)		m ³ /h	800/720/610/520/-	1150/1000/900/800/-	
Dehumidifying Volume		L/h	1.8	2.1	
EER		W/W	3.25	3.57	
COP		W/W	3.74	3.73	
SEER		W/W	6.1	6.30	
SCOP		W/W	3.0	3.0	
Application Area		m ²	23-34	23-34	
Indoor Unit	Indoor Unit Model		LI018HI-160T432	LI024HI-160T432	
	Indoor Unit Product Code		Y6736	Y6738	
	Fan Type		Cross-flow	Cross-flow	
	Fan Diameter Length(DXL)		mm	Φ106X706	Φ108X830
	Cooling Speed(SH/H/M//L/SL)		r/min	1230/1130/1030/900/-	1250/1000/900/800/-
	Heating Speed(SH/H/M//L/SL)		r/min	1250/1100/1000/900/-	1250/1000/900/850/-
	Fan Motor Power Output		W	35	35
	Fan Motor RLA		A	0.35	0.35
	Fan Motor Capacitor		μF	2.5	3
	Evaporator Form			Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter		mm	Φ7	Φ7
	Evaporator Row-fin Gap		mm	2-1.4	2-1.4
	Evaporator Coil Length (LXDXW)		mm	715X25.4X304.8	845X25.4X342.9
	Swing Motor Model			MP35CJ	MP35CJ
	Swing Motor Power Output		W	2.5	2.5
	Fuse Current		A	3.15	3.15
	Sound Pressure Level(SH/H/M//L/SL)		dB (A)	46/42/39/36/-	48/45/42/39/-
	Sound Power Level(SH/H/M//L/SL)		dB (A)	58/54/51/48/-	64/59/56/53/-
	Dimension (WXHXD)		mm	970X300X224	1078X325X246
	Dimension of Carton Box (LXWXH)		mm	1038X380X305	1145X410X335
	Dimension of Package(LXWXH)		mm	1041X383X320	1148X413X350
Net Weight		kg	13.5	17	
Gross Weight		kg	16.5	20.5	

Outdoor Unit	Outdoor Unit Model		LI018HO-160T432	LI024HO-160T432
	Outdoor Unit Product Code		Y6737	Y6739
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD	ZHUHAI LANDA COMPRESSOR CO.,LTD.
	Compressor Model		QXA-B141zF030	QXAS-D23zX090A
	Compressor Oil		68EP	FV50S
	Compressor Type		Rotary	Rotary
	Compressor LRA.	A	18	25
	Compressor RLA	A	7.5	11.50
	Compressor Power Input	W	1440	2550
	Compressor Overload Protector		1NT11L-6233 or KSD115°C or HPC115/95U1	1NT11L-6233 or HPC115/95/ or KSD115°C
	Throttling Method		Capillary	Electron expansion valve+Capillary
	Set Temperature Range	°C	16~30	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43	-15~43
	Heating Operation Ambient Temperature Range	°C	-20~24	-20~24
	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7	Φ7
	Condenser Rows-fin Gap	mm	2-1.4	2-1.4
	Condenser Coil Length (LXDXW)	mm	851X38.1X660	935X38.1X660
	Fan Motor Speed	rpm	750	800/300
	Fan Motor Power Output	W	60	60
	Fan Motor RLA	A	/	/
	Fan Motor Capacitor	μF	/	/
	Outdoor Unit Air Flow Volume	m ³ /h	3200	3200
	Fan Type		Axial-flow	Axial-flow
	Fan Diameter	mm	Φ520	Φ520
	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	4.3	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5	2.5
	Sound Pressure Level (H/M/L)	dB (A)	56/-/-	60/-/-
Sound Power Level (H/M/L)	dB (A)	63/-/-	68/-/-	
Dimension(WXHXD)	mm	963X700X396	963X700X396	
Dimension of Carton Box (LXWXH)	mm	1026X455X735	1026X455X735	
Dimension of Package(LXWXH)	mm	1029X458X750	1029X458X750	
Net Weight	kg	45	53	
Gross Weight	kg	49.5	57.5	
Refrigerant		R410A	R410A	
Refrigerant Charge	kg	1.3	1.9	
Connection Pipe	Connection Pipe Length	m	5	5
	Connection Pipe Gas Additional Charge	g/m	20	50
	Outer Diameter Liquid Pipe	mm	Φ6	Φ6
	Outer Diameter Gas Pipe	mm	Φ12	Φ16
	Max Distance Height	m	10	10
	Max Distance Length	m	25	25
Note: The connection pipe applies metric diameter.				

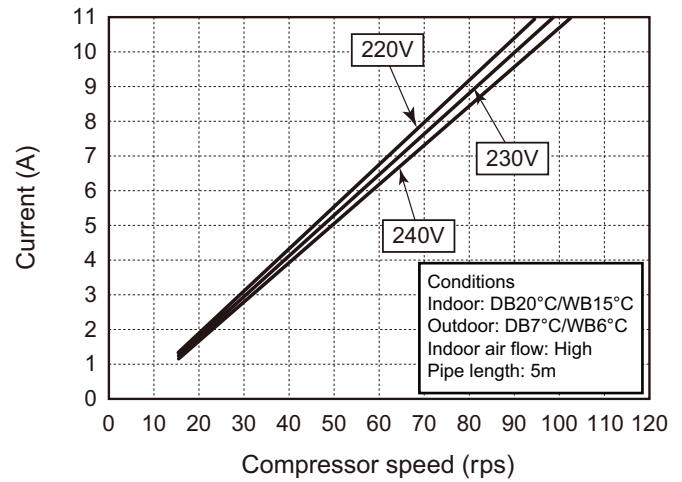
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2.2 Operation Curve

Cooling

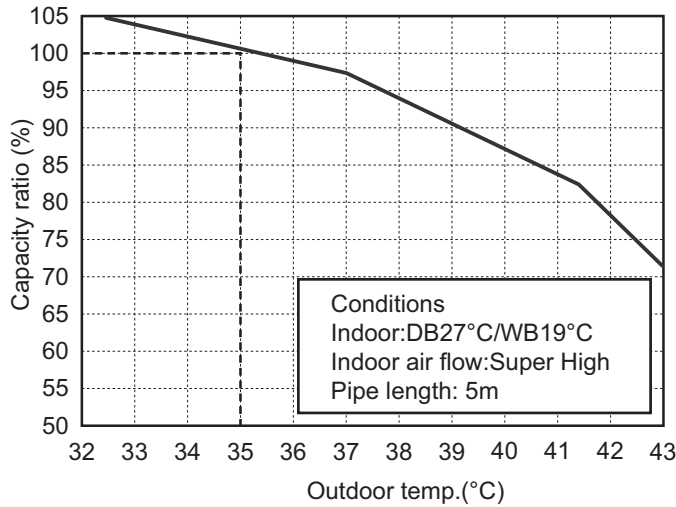


Heating

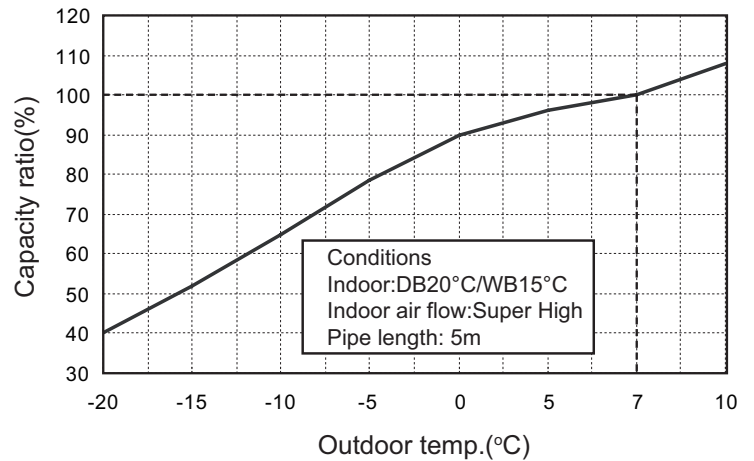


2.3 Capacity Variation Ratio According to Temperature

Cooling



Heating



2.4 Cooling and Heating Data Sheet in Rated Frequency

Cooling:

Rated cooling condition(°C) (DB/WB)		Model	Pressure of gas pipe connecting indoor and outdoor unit	Inlet and outlet pipe temperature of heat exchanger		Fan speed of indoor unit	Fan speed of outdoor unit	Compressor frequency (Hz)
Indoor	Outdoor			T1 (°C)	T2 (°C)			
27/19	35/24	All models	0.9 to 1.1	12 to 14	75 to 37	Super High	High	52 72

Heating:

Rated heating condition(°C) (DB/WB)		Model	Pressure of gas pipe connecting indoor and outdoor unit	Inlet and outlet pipe temperature of heat exchanger		Fan speed of indoor unit	Fan speed of outdoor unit	Compressor frequency (Hz)
Indoor	Outdoor			T1 (°C)	T2 (°C)			
20/-	7/6	All models	2.2 to 2.4	70 to 35	2 to 4	Super High	High	65 77

Instruction:

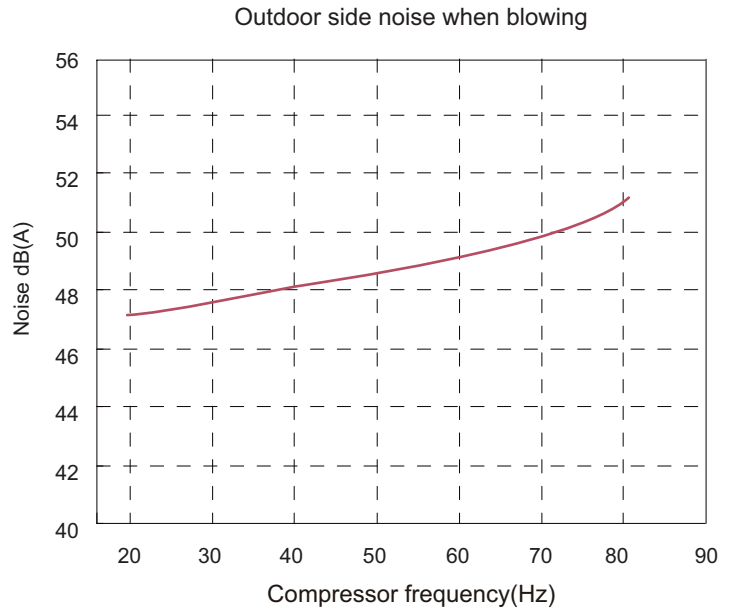
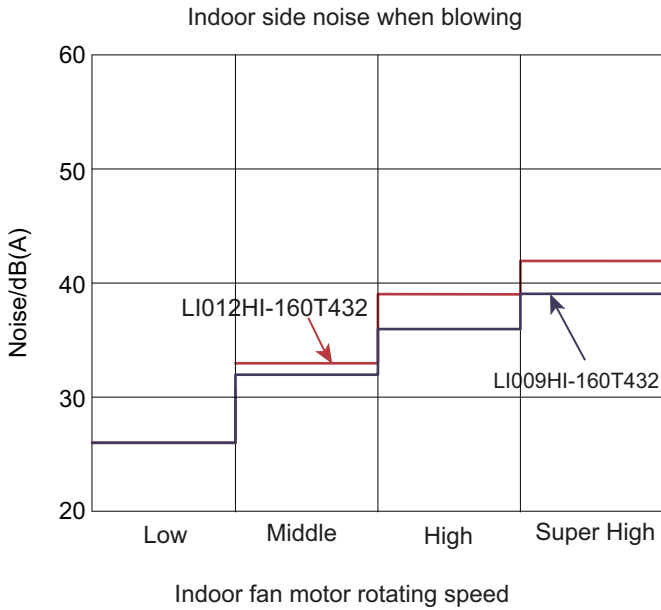
T1: Inlet and outlet pipe temperature of evaporator T2: Inlet and outlet pipe temperature of condenser

P: Pressure at the side of big valve

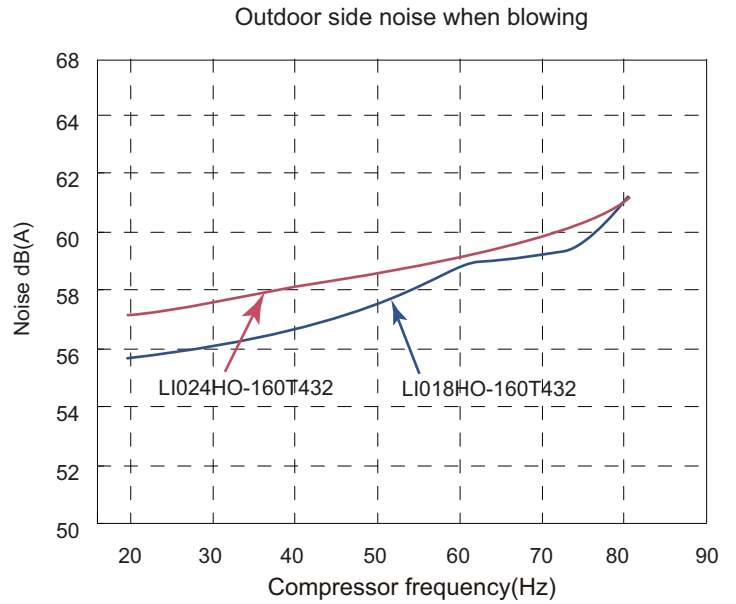
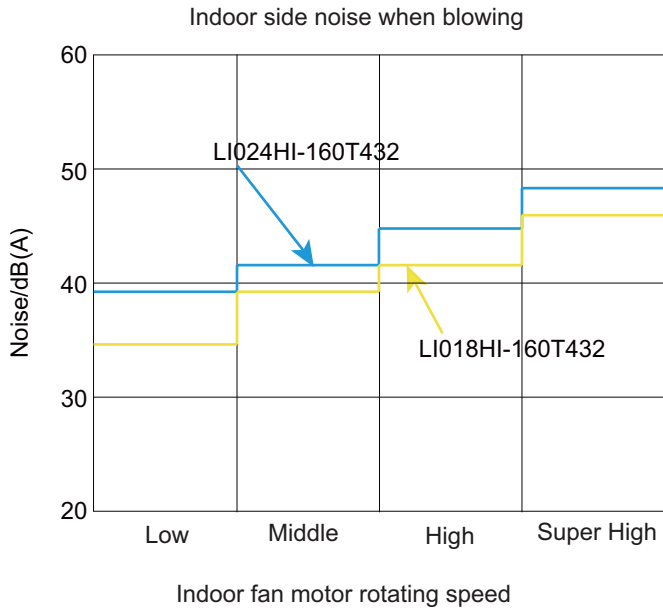
Connection pipe length: 5 m.

2.5 Noise Curve

LI009HI-160T432 LI009HO-160T432;LI012HI-160T432 LI012HO-160T432

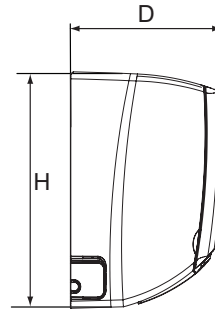
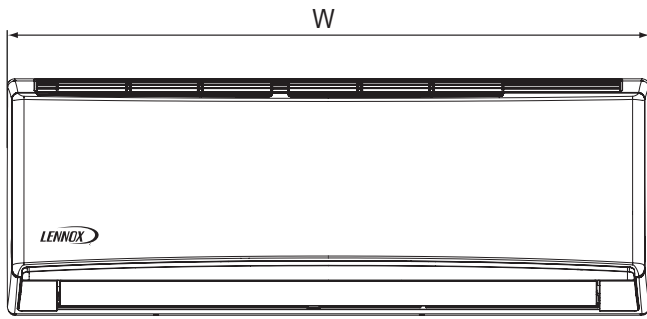


LI018HI-160T432 LI018HO-160T432;LI024HI-160T432 LI024HO-160T432

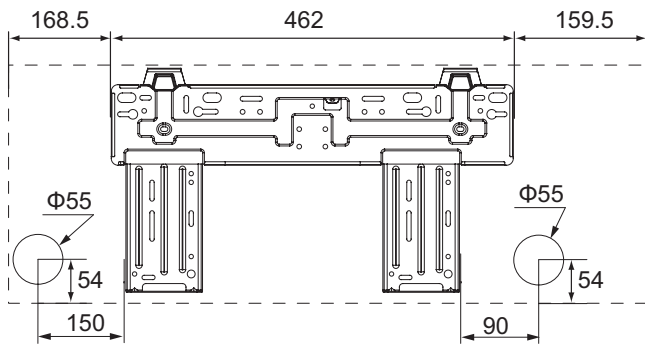


3. Dimensions

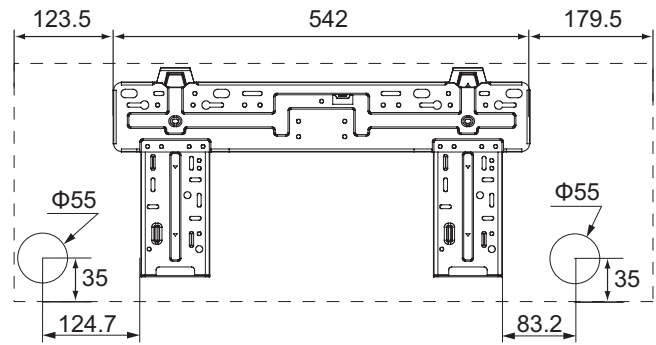
3.1 Indoor Unit



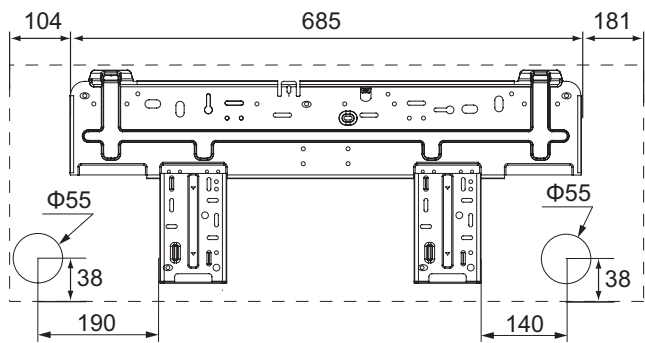
LI009HI-160T432



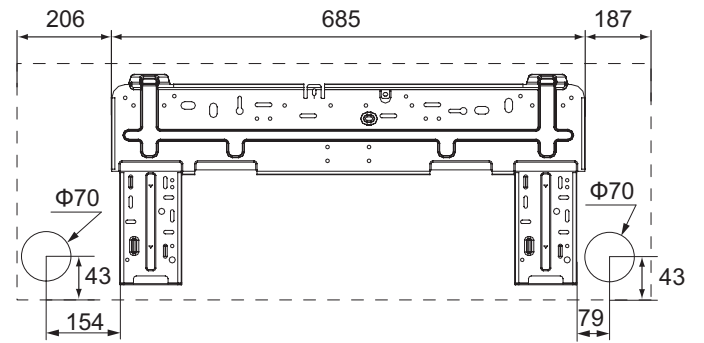
LI012HI-160T432



LI018HI-160T432



LI024HI-160T432

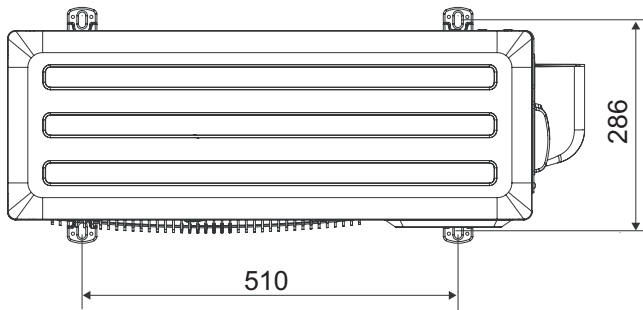
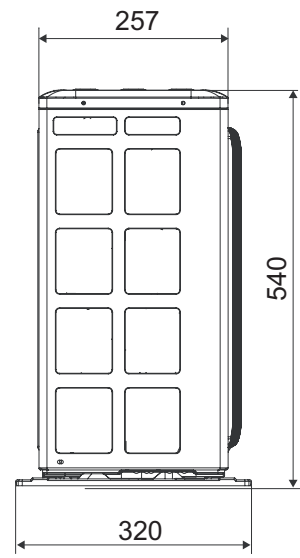
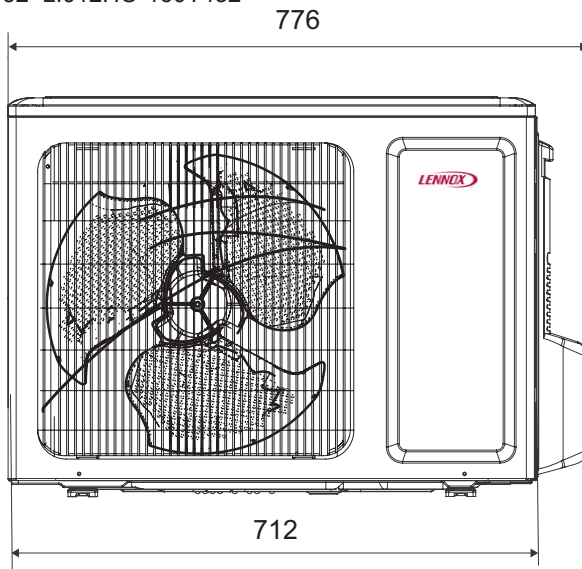


Unit:mm

Model	W	H	D
LI009HI-160T432	790	275	200
LI012HI-160T432	845	289	209
LI018HI-160T432	970	300	224
LI024HI-160T432	1078	325	246

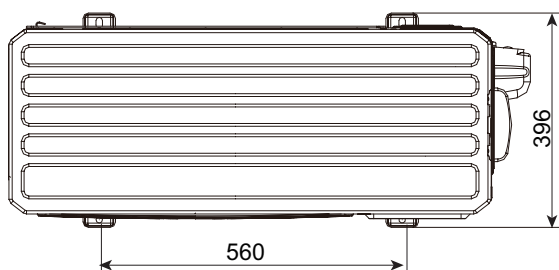
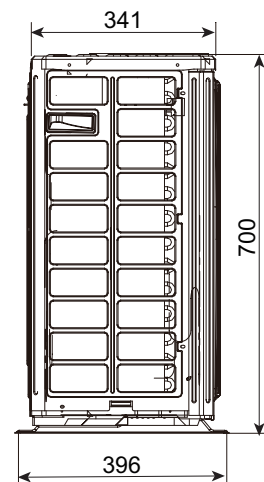
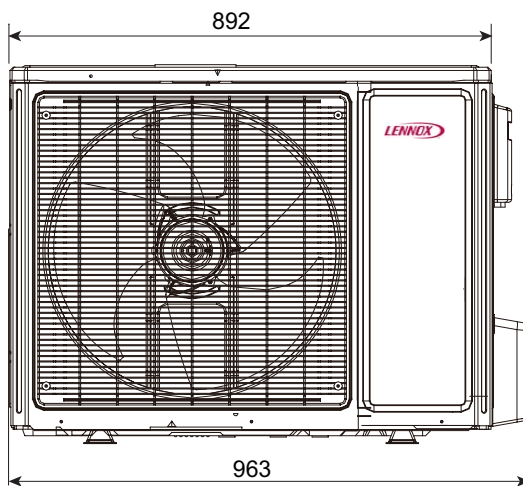
3.2 Outdoor Unit

LI009HO-160T432 LI012HO-160T432



Unit:mm

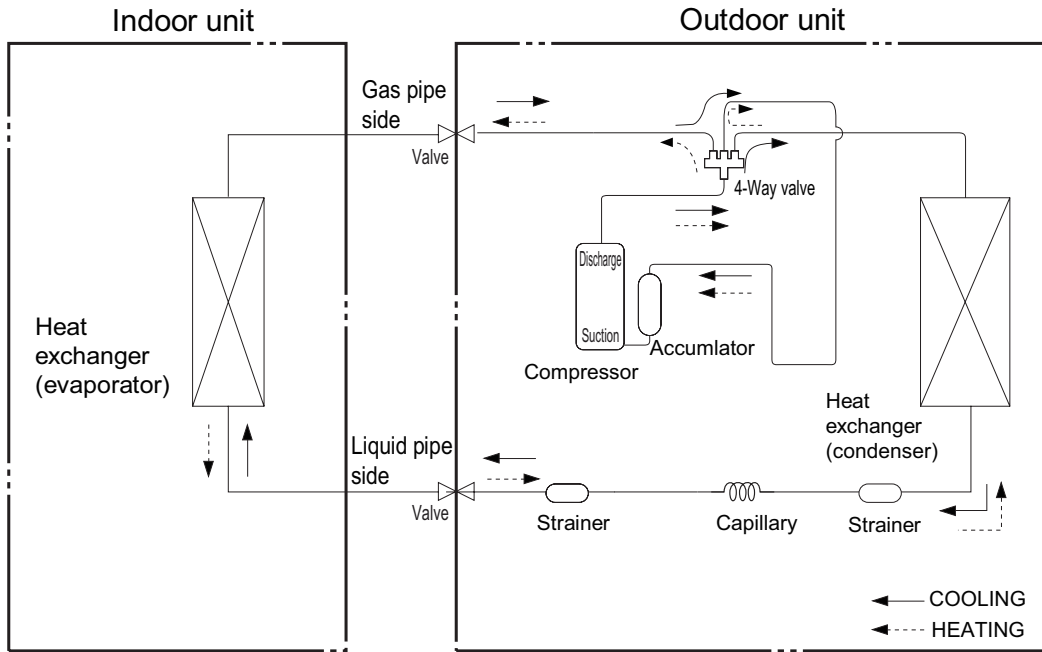
LI018HO-160T432 LI024HO-160T432



Unit:mm

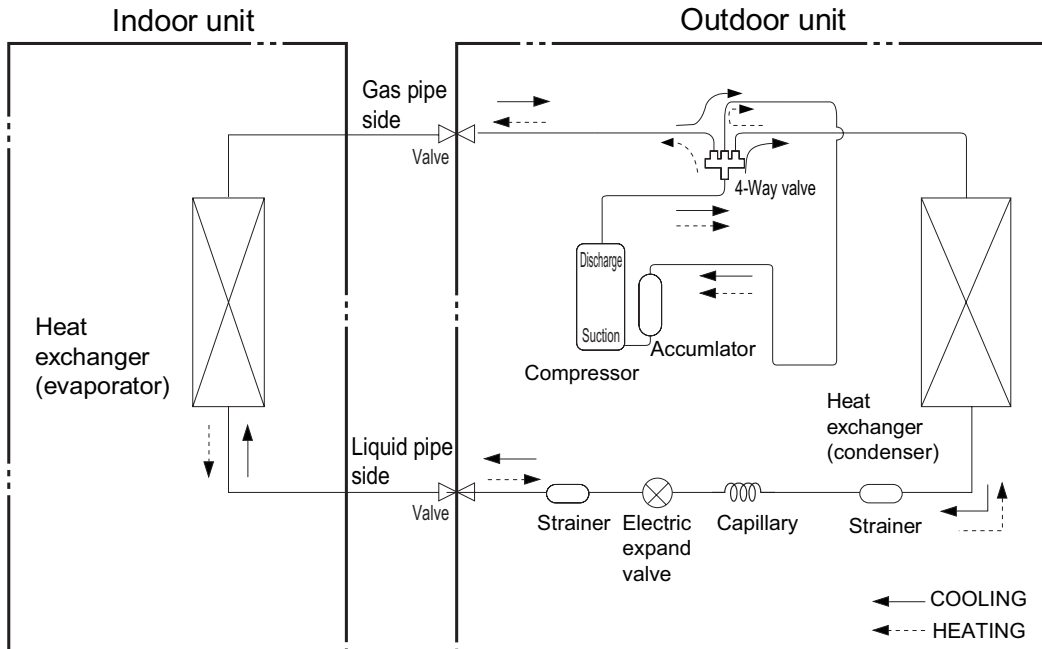
4. Refrigerant System Diagram

LI018HI-160T432 LI018HO-160T432



Connection pipe specification:
 Liquid pipe: 1/4" (6mm)
 Gas pipe: 1/2" (12mm)

All models except: LI018HI-160T432 LI018HO-160T432



Connection pipe specification:
 Liquid pipe: 1/4" (6mm)
 Gas pipe: 3/8" (9.52mm)(LI009HI-160T432 LI009HO-160T432; LI012HI-160T432 LI012HO-160T432)
 Gas pipe: 5/8" (16mm)(LI024HI-160T432 LI024HO-160T432)

5. Electrical Part

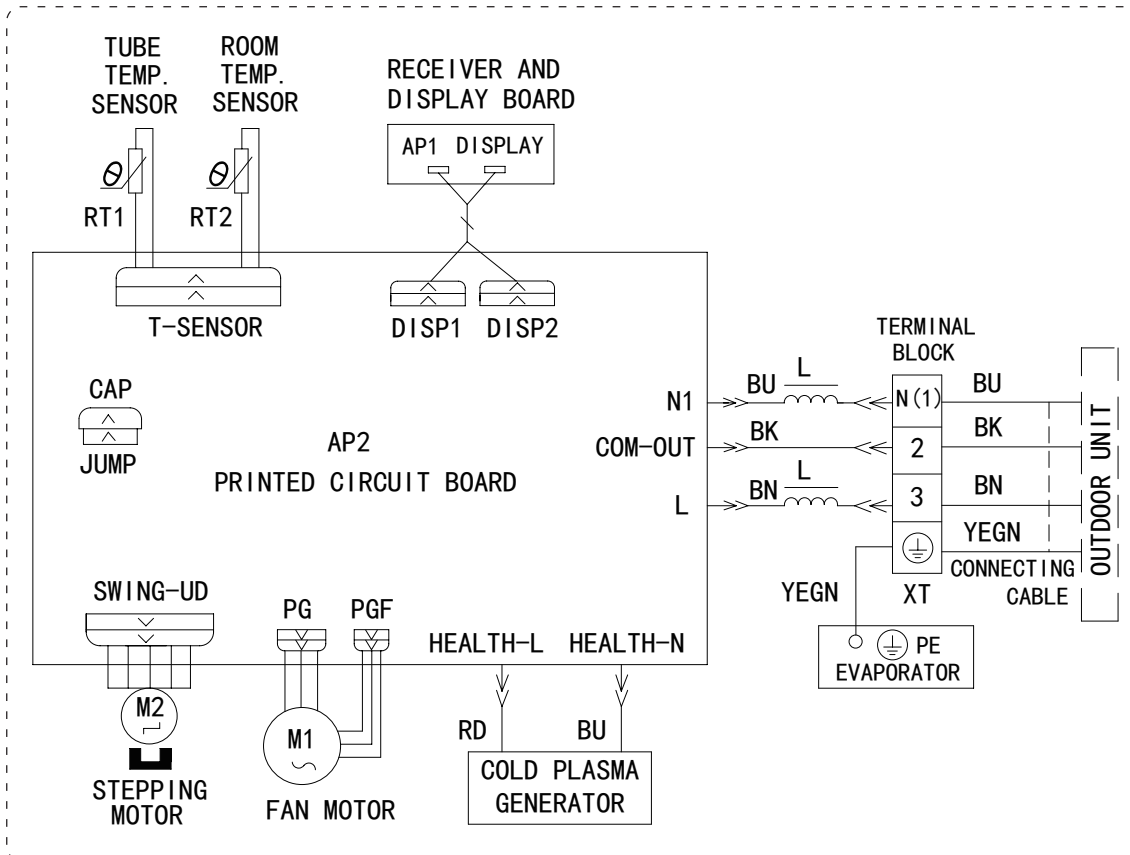
5.1 Wiring Diagram

- 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	/	/

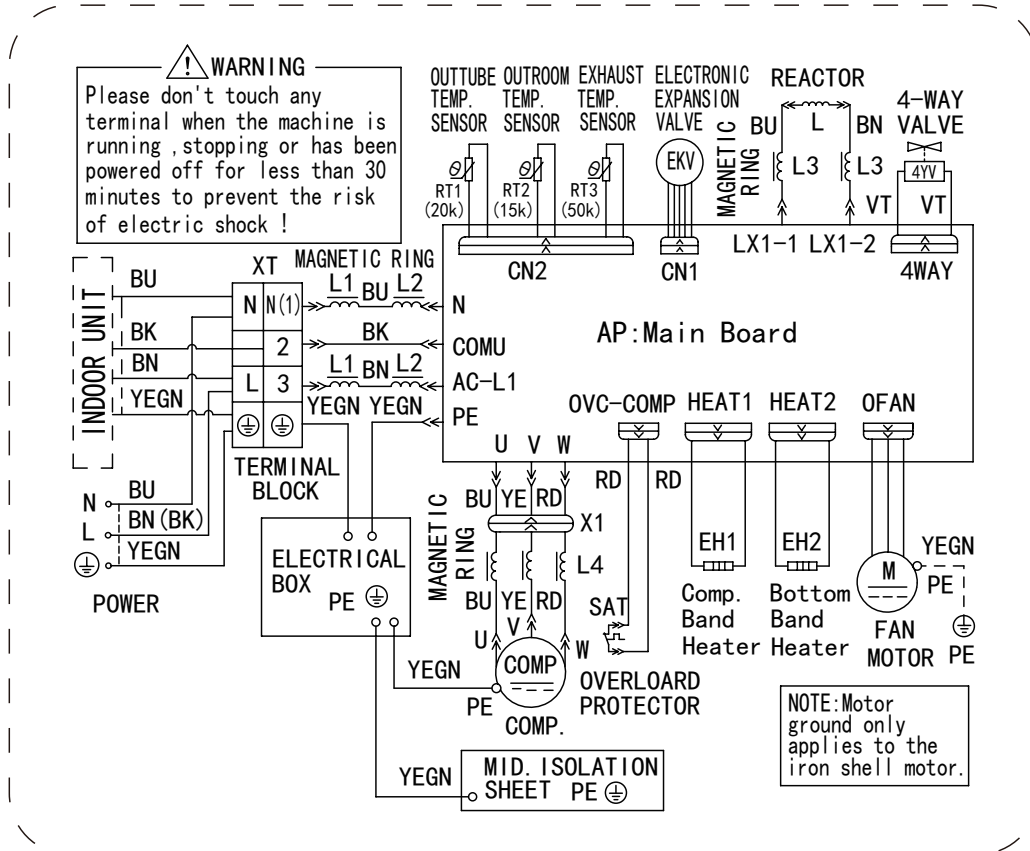
Note: Jumper cap is used to determine fan speed and the swing angle of horizontal lover for this model.

- Indoor Unit

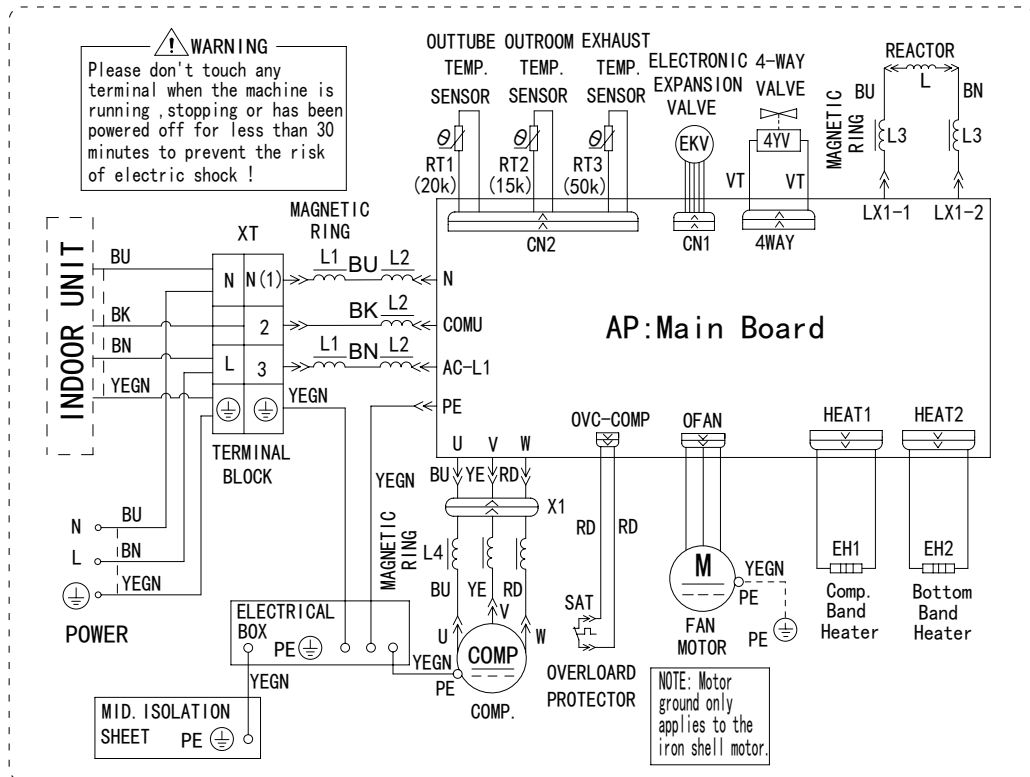


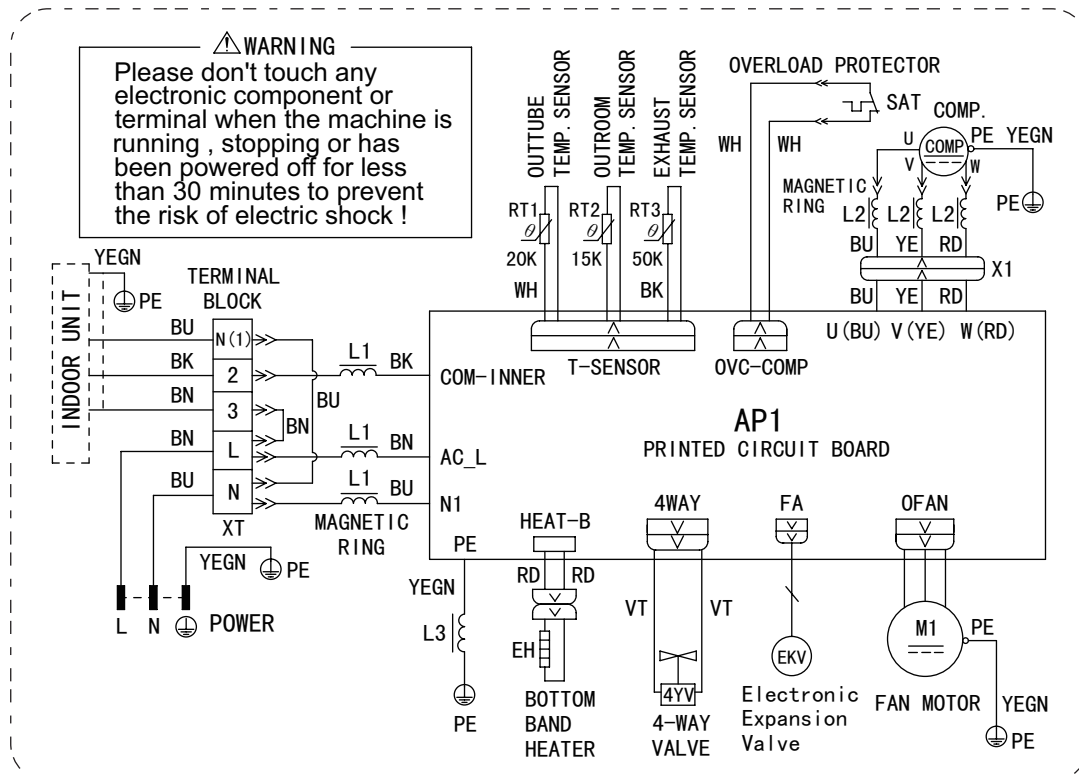
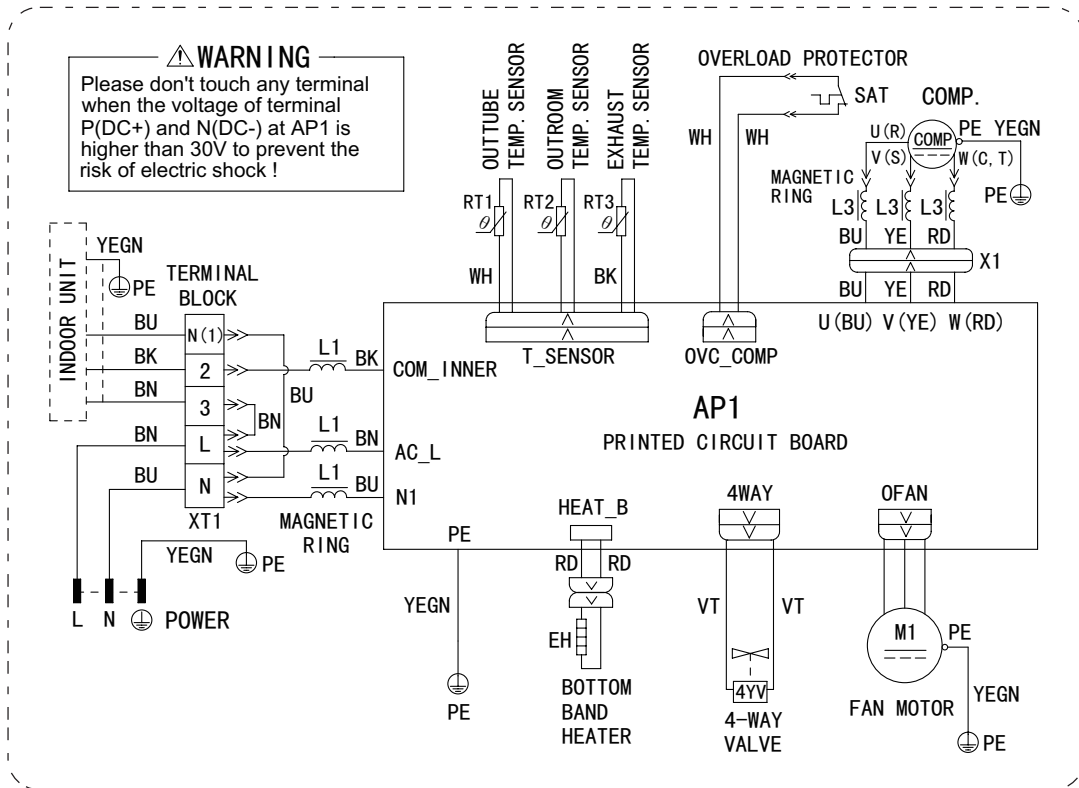
• Outdoor Unit

LI009HO-160T432



LI012HO-160T432





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