

Folleto Partida 1 Documento 3



America's Premier Climate Comfort Brand since 1895

Submittal:

Models: LI012CI-180P432 LI012CO-180P432
LI012HI-180P432 **LI012HO-180P432**
LI024CI-180P432 LI024CO-180P432
LI024HI-180P432 LI024HO-180P432
(Refrigerant R410A)

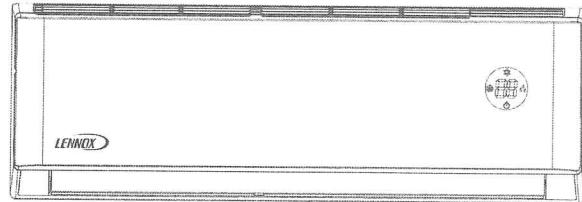
Thank you for selecting LENNOX air conditioners.

Submittal 18 SEER 60Hz

1. Summary

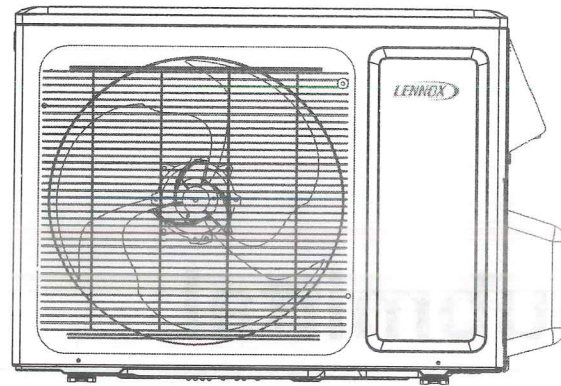
Indoor Unit

LI012CI-180P432
LI012HI-180P432
LI024CI-180P432
LI024HI-180P432

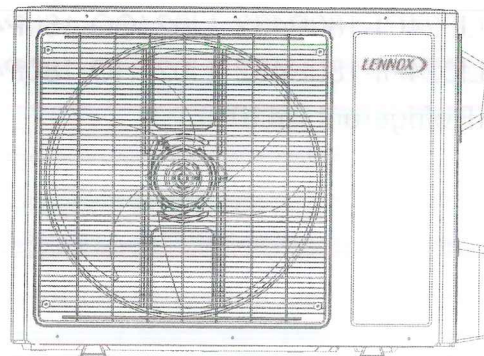


Outdoor Unit

LI012CO-180P432
LI012HO-180P432



LI024CO-180P432
LI024HO-180P432



Remote Controller

Y6334



2. Specifications

2.1 Specification Sheet

Model		LI012CI-180P432 LI012CO-180P432	LI012HI-180P432 LI012HO-180P432
Product Code		Y8369/Y8370	Y8381/Y8382
Power Supply	Rated Voltage	V~	208/230
	Rated Frequency	Hz	60
	Phases		1
Power Supply Mode		Outdoor	Outdoor
Cooling Capacity(Min~Max)		Btu/h	12000(3753~12500)
Heating Capacity(Min~Max)		Btu/h	13000(3924~14000)
Cooling Power Input(Min~Max)		W	1150(410~1350)
Heating Power Input(Min~Max)		W	1250(380~1500)
Cooling Power Current		A	5.1
Heating Power Current		A	5.55
Rated Input		W	1350
Rated Current		A	6.0
Air Flow Volume(SH/H/M/L)		CFM	400/318/253/194
Dehumidifying Volume		Pint/h	2.96
EER		(Btu/h)/W	10.43
COP		(Btu/h)/W	10.4
SEER			18.00
HSPF			9.00
Application Area		yd ²	19.14-28.70
Indoor Unit	Model of indoor unit	LI012CI-180P432	LI012HI-180P432
	Indoor Unit Product Code	Y8369	Y8381
	Fan Type	Cross-flow	Cross-flow
	Diameter Length(DXL)	inch	Φ3 7/8X25
	Fan Motor Cooling Speed(SH/H/M/L)	r/min	1350/1200/1000/800
	Fan Motor Heating Speed(SH/H/M/L)	r/min	/
	Output of Fan Motor	W	20
	Fan Motor RLA	A	0.31
	Fan Motor Capacitor	μF	1.5
	Evaporator Form	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	inch	Φ3/16
	Row-fin Gap	inch	2-1/16
	Coil Length (LXDXW)	inch	25X7/8X12 1/16
	Swing Motor Model	MP24BA	MP24BA
	Output of Swing Motor	W	1.5
	Fuse	A	3.15
	Sound Pressure Level(SH/H/M/L)	dB (A)	43/39/35/29
	Sound Power Level(SH/H/M/L)	dB (A)	53/49/45/39
	Dimension (WXHXD)	inch	33 1/4X11 3/8X8 1/4
	Dimension of Carton Box (LXWXH)	inch	36 1/8X11X14 5/16
	Dimension of Package (LXWXH)	inch	36 1/4X11X15
	Net Weight	lb	23.15
	Gross Weight	lb	27.56

Outdoor Unit	Model of Outdoor Unit		LI012CO-180P432	LI012HO-180P432
	Outdoor Unit Product Code		Y8370	Y8382
	Compressor Manufacturer/Trademark		ZHUHAI LANDA COMPRESSOR CO.,LTD.	ZHUHAI LANDA COMPRESSOR CO.,LTD.
	Compressor Model		QXA-B102zE190	QXA-B102zE190
	Compressor Oil		RB68EP	RB68EP
	Compressor Type		Rotary	Rotary
	Compressor Locked Rotor Amp (L.R.A)	A	/	/
	Compressor RLA	A	6.6	6.6
	Compressor Power Input	W	1020	1020
	Overload Protector		1NT11L-6233 or HPC115/95U1 or KSD115°C	1NT11L-6233 or HPC115/95U1 or KSD115°C
	Throttling Method		Electron expansion valve	Electron expansion valve
	Operation temp	°F	60.8~86	60.8~86
	Ambient temp (cooling)	°F	0~115	0~115
	Ambient temp (heating)	°F	/	-4~75
	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	inch	Φ5/16	Φ5/16
	Rows-fin Gap	inch	2-1/16	2-1/16
	Coil Length (LXDXW)	inch	28X1 1/2X20	28X1 1/2X20
	Fan Motor Speed	rpm	900	900
	Output of Fan Motor	W	30	30
	Fan Motor RLA	A	0.37	0.37
	Fan Motor Capacitor	μF	/	/
	Air Flow Volume of Outdoor Unit	CFM	1600	1600
	Fan Type		Axial-flow	Axial-flow
	Fan Diameter	inch	Φ15 3/4	Φ15 3/4
	Defrosting Method		/	Automatic Defrosting
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IPX4	IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	PSIG	550	550
	Permissible Excessive Operating Pressure for the Suction Side	PSIG	240	240
	Sound Pressure Level (H/M/L)	dB (A)	53/-/-	53/-/-
	Sound Power Level (H/M/L)	dB (A)	63/-/-	63/-/-
	Dimension (WXHxD)	inch	30 9/16X21 1/4X12 5/8	30 9/16X21 1/4X12 5/8
	Dimension of Carton Box (LXWXH)	inch	32 9/32X13 63/64X22 27/32	32 9/32X13 63/64X22 27/32
	Dimension of Package (LXWXH)	inch	32 13/32X14 3/32X23 27/64	32 13/32X14 3/32X23 27/64
	Net Weight	lb	67.24	69.45
	Gross Weight	lb	72.75	74.96
	Refrigerant		R410A	R410A
	Refrigerant Charge	oz	31.8	31.8
Connection Pipe	Length	ft	24.6	24.6
	Gas Additional Charge	oz/ft	0.2	0.2
	Outer Diameter Liquid Pipe	inch	Φ1/4	Φ1/4
	Outer Diameter Gas Pipe	inch	Φ3/8	Φ3/8
	Max Distance Height	ft	32.8	32.8
	Max Distance Length	ft	49.2	49.2
Note:The connection pipe applies metric diameter.				

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

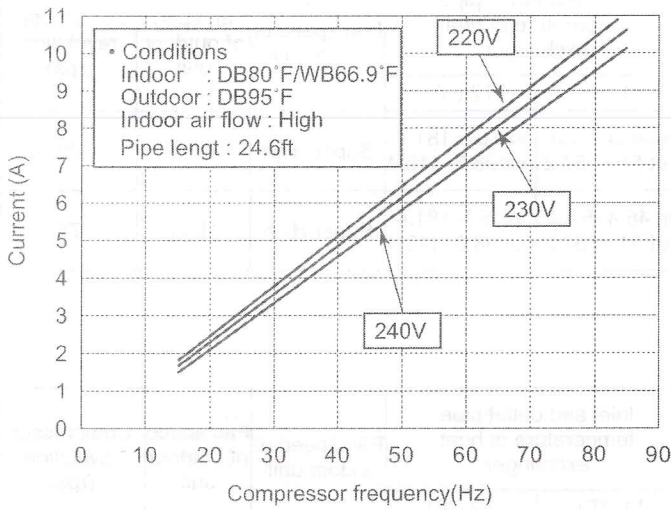
Model			LI024CI-180P432 LI024CO-180P432	LI024HI-180P432 LI024HO-180P432
Product Code			Y8373/Y8374	Y8385/Y8386
Power Supply	Rated Voltage	V~	208/230	208/230
	Rated Frequency	Hz	60	60
	Phases		1	1
Power Supply Mode			Outdoor	Outdoor
Cooling Capacity(Min~Max)		Btu/h	22000(8630~23200)	22000(8630~23200)
Heating Capacity(Min~Max)		Btu/h	/	24000(8650~26000)
Cooling Power Input(Min~Max)		W	2260(600~27000)	2260(600~27000)
Heating Power Input(Min~Max)		W	/	2300(610~2750)
Cooling Power Current		A	10.03	10.03
Heating Power Current		A	/	10.20
Rated Input		W	2700	2750
Rated Current		A	11.98	11.98
Air Flow Volume(SH/H/M/L)		CFM	1200/1050/900/750	1200/1050/900/750
Dehumidifying Volume		Pint/h	2.5	2.5
EER		(Btu/h)/W	9.73	9.73
COP		(Btu/h)/W	/	10.40
SEER			18	18.00
HSPF			/	10.00
Application Area		yd ²	32.29-50.23	32.29-50.23
Indoor Unit	Model of indoor unit		LI024CI-180P432	LI024HI-180P432
	Indoor Unit Product Code		Y8373	Y8385
	Fan Type		Cross-flow	Cross-flow
	Diameter Length(DXL)	inch	Φ4 1/4X32 11/16	Φ4 1/4X32 11/16
	Fan Motor Cooling Speed(SH/H/M/L)	r/min	1300/1150/1000/850	1300/1150/1000/850
	Fan Motor Heating Speed(SH/H/M/L)	r/min	/	1300/1150/1000/850
	Output of Fan Motor	W	30	30
	Fan Motor RLA	A	0.32	0.32
	Fan Motor Capacitor	μF	3	3
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	inch	Φ5/16	Φ5/16
	Row-fin Gap	inch	2-1/16	2-1/16
	Coil Length (LXDXW)	inch	33 1/4X1X13 1/2	33 1/4X1X13 1/2
	Swing Motor Model		MP35CJ	MP35CJ
	Output of Swing Motor	W	2.5	2.5
	Fuse	A	3.15	3.15
	Sound Pressure Level(SH/H/M/L)	dB (A)	49/46/42/36	49/46/42/36
	Sound Power Level(SH/H/M/L)	dB (A)	59/56/52/46	59/56/52/46
	Dimension (WXHXD)	inch	42 7/16X12 13/16X9 11/16	42 7/16X12 13/16X9 11/16
	Dimension of Carton Box (LXWXH)	inch	45X16 1/8X13 3/16	45X16 1/8X13 3/16
	Dimension of Package (LXWXH)	inch	45 3/16X16 1/4X13 3/4	45 3/16X16 1/4X13 3/4
	Net Weight	lb	38.58	38.58
	Gross Weight	lb	45.19	45.19

Outdoor Unit	Model of Outdoor Unit		LI024CO-180P432	LI024HO-180P432
	Outdoor Unit Product Code		Y8374	Y8386
	Compressor Manufacturer/Trademark		ZHUHAI LANDA COMPRESSOR CO.,LTD	ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QXA-B141zF030A	QXA-B141zF030A
	Compressor Oil		RB68EP	RB68EP
	Compressor Type		Rotary	Rotary
	Compressor Locked Rotor Amp (L.R.A)	A	25	25
	Compressor RLA	A	11.29	12.18
	Compressor Power Input	W	1440	1440
	Overload Protector		1NT11L-6233 or KSD115°C or HPC115/95U1	NT11L-6233 or KSD115°C or HPC115/95U1
	Throttling Method		Electron expansion valve	Electron expansion valve
	Operation temp	°F	60.8~86	60.8~86
	Ambient temp (cooling)	°F	0~115	0~115
	Ambient temp (heating)	°F	/	-4~75
	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	inch	Φ3/8	Φ3/8
	Rows-fin Gap	inch	2-1/16	2-1/16
	Coil Length (LXDXW)	inch	33 5/16X1 3/4X26	33 5/16X1 3/4X26
	Fan Motor Speed	rpm	800	800
	Output of Fan Motor	W	60	60
	Fan Motor RLA	A	0.4	0.4
	Fan Motor Capacitor	μF	/	/
	Air Flow Volume of Outdoor Unit	CFM	3200	3200
	Fan Type		Axial-flow	Axial-flow
	Fan Diameter	inch	Φ20 1/2	Φ20 1/2
	Defrosting Method		/	Automatic Defrosting
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IPX4	IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	ISPG	550	550
	Permissible Excessive Operating Pressure for the Suction Side	ISPG	240	240
	Sound Pressure Level (H/M/L)	dB (A)	58/-/-	58/-/-
	Sound Power Level (H/M/L)	dB (A)	68/-/-	68/-/-
	Dimension (WXHXD)	inch	38X27 9/16X15 5/8	38X27 9/16X15 5/8
	Dimension of Carton Box (LXWXH)	inch	40 3/8X17 7/8X29	40 3/8X17 7/8X29
	Dimension of Package (LXWXH)	inch	40 1/2X18X29 1/2	40 1/2X18X29 1/2
	Net Weight	lb	101.41	103.62
	Gross Weight	lb	111.33	113.54
	Refrigerant		R410A	R410A
	Refrigerant Charge	oz	56.4	56.4
Connection Pipe	Length	ft	24.6	24.6
	Gas Additional Charge	oz/ft	0.2	0.2
	Outer Diameter Liquid Pipe	inch	Φ1/4	Φ1/4
	Outer Diameter Gas Pipe	inch	Φ5/8	Φ5/8
	Max Distance Height	ft	32.8	32.8
	Max Distance Length	ft	82	82
Note:The connection pipe applies metric diameter.				

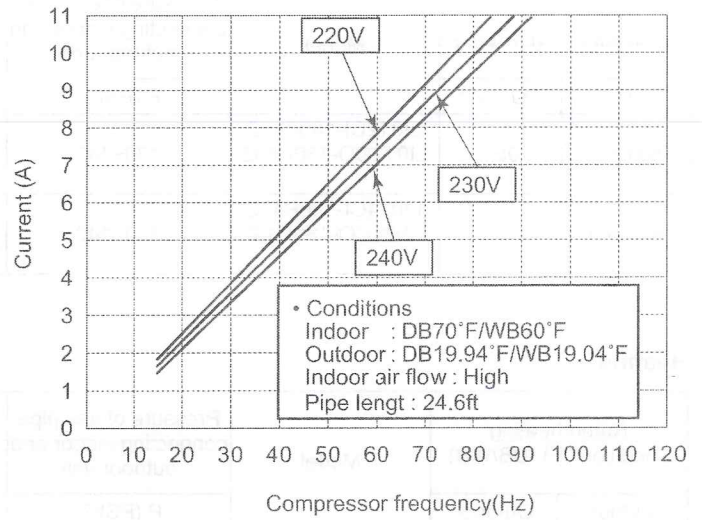
The above data is subject to change without notice. Please refer to the nameplate of the unit.

2.2 Operation Curve

Cooling

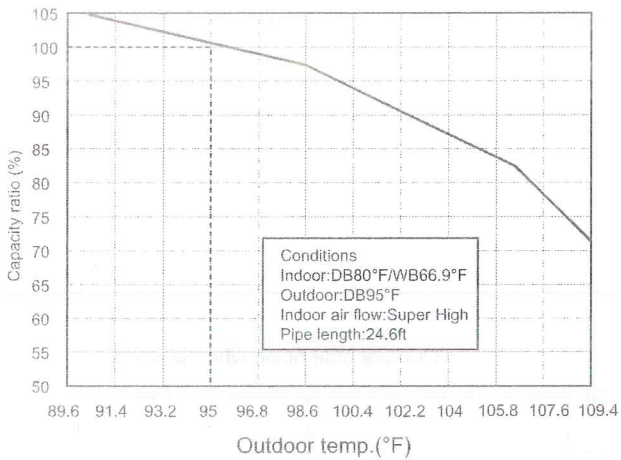


Heating

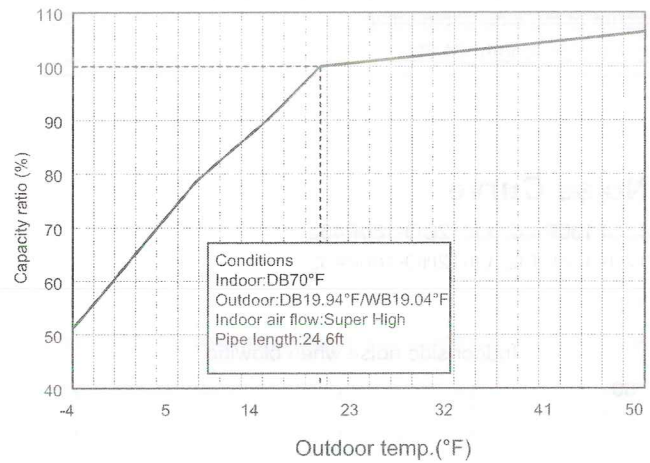


2.3 Capacity Variation Ratio According to Temperature

Cooling



Heating



2.4 Cooling and Heating Data Sheet in Rated Frequency

Cooling:

Rated cooling condition(°F) (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 revolution (rps)
Indoor	Outdoor			T1 (°F)	T2 (°F)			
80/66.9	95/-	LI012CI-180P432 LI012CO-180P432	130~142	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/-	LI024CI-180P432 LI024CO-180P432	130~142	in:46.4~51.8 out:51.8~57.2	in:167~181.4 out:98.6~118.4	Super High	High	75

Heating:

Rated heating condition(°F) (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 revolution (rps)
Indoor	Outdoor			T1 (°F)	T2 (°F)			
70/60	19.94/19.04	LI012HI-180P432 LI012HO-180P432	362~406	in:167~181.4 out:98.6~113	in:33.8~37.4 out:35.6~42.8	Super High	High	77
70/60	19.94/19.04	LI024HI-180P432 LI024HO-180P432	362~406	in:167~181.4 out:98.6~113	in:33.8~37.4 out:35.6~42.8	Super High	High	80

Instruction:

T1: Inlet and outlet pipe temperature of evaporator

T2: Inlet and outlet pipe temperature of condenser

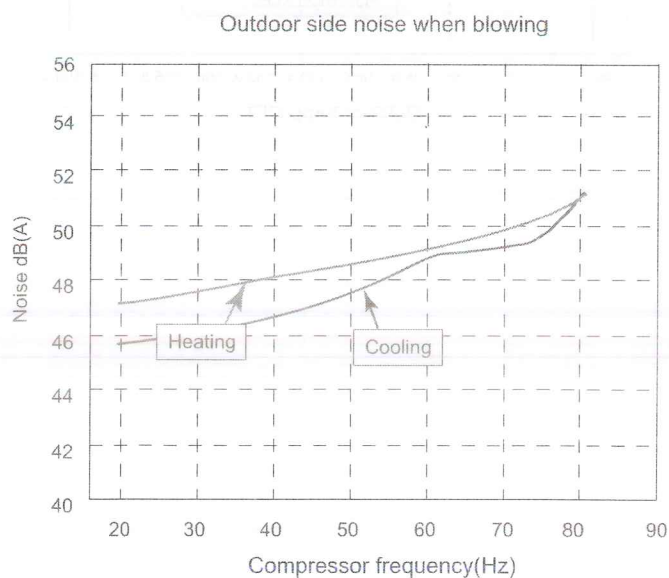
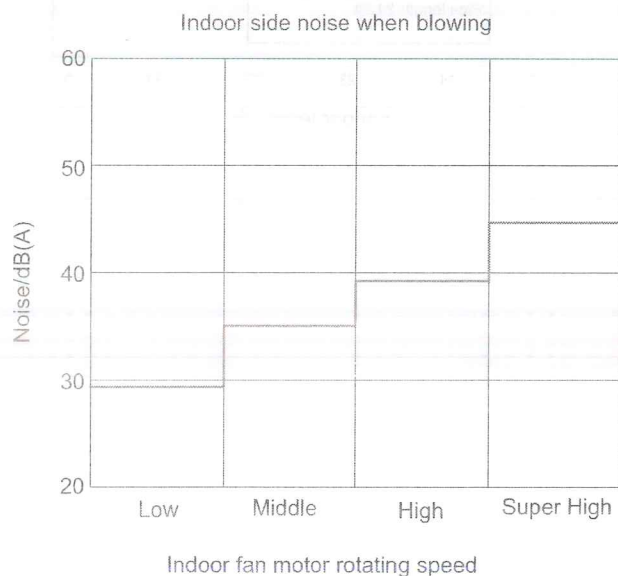
P: Pressure at the side of big valve

Connection pipe length: 24.6ft.

2.5 Noise Curve

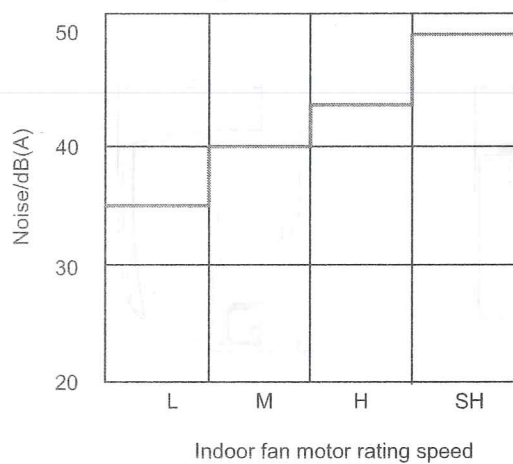
LI012CI-180P432 LI012CO-180P432

LI012HI-180P432 LI012HO-180P432

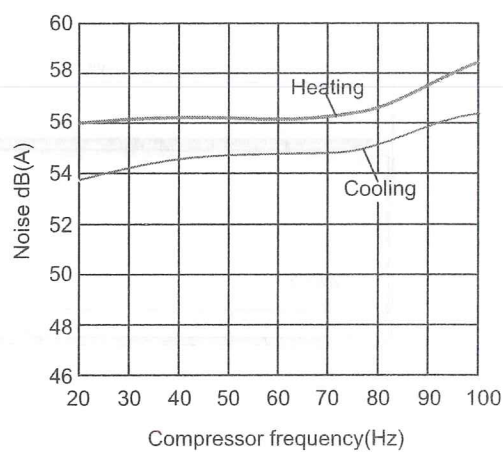


LI024CI-180P432 LI024CO-180P432
 LI024HI-180P432 LI024HO-180P432

Indoor side noise

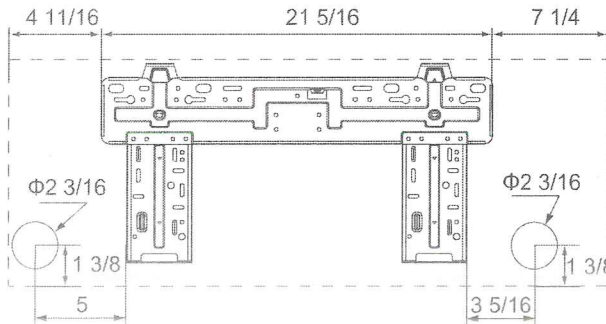
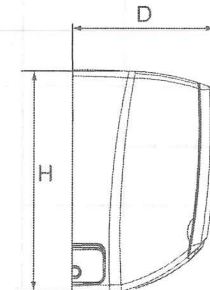
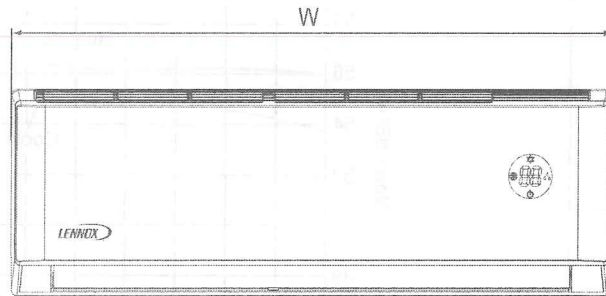


Outdoor side noise

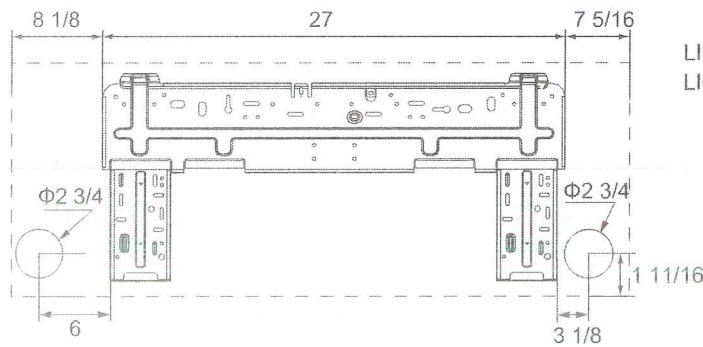


3. Dimensions

3.1 Indoor Unit



LI012CI-180P432 LI012CO-180P432
LI012HI-180P432 LI012HO-180P432

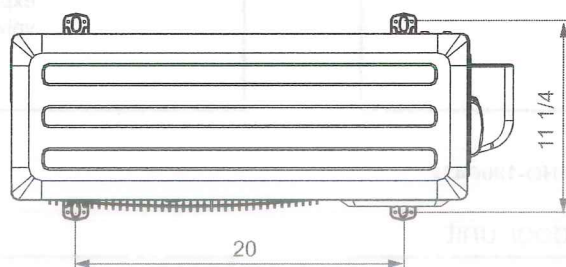
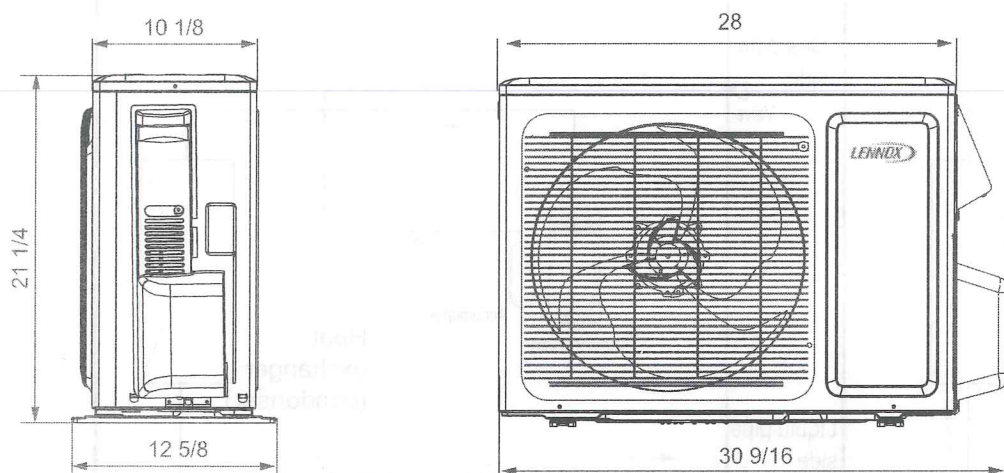


LI024CI-180P432 LI024CO-180P432
LI024HI-180P432 LI024HO-180P432

Unit: inch

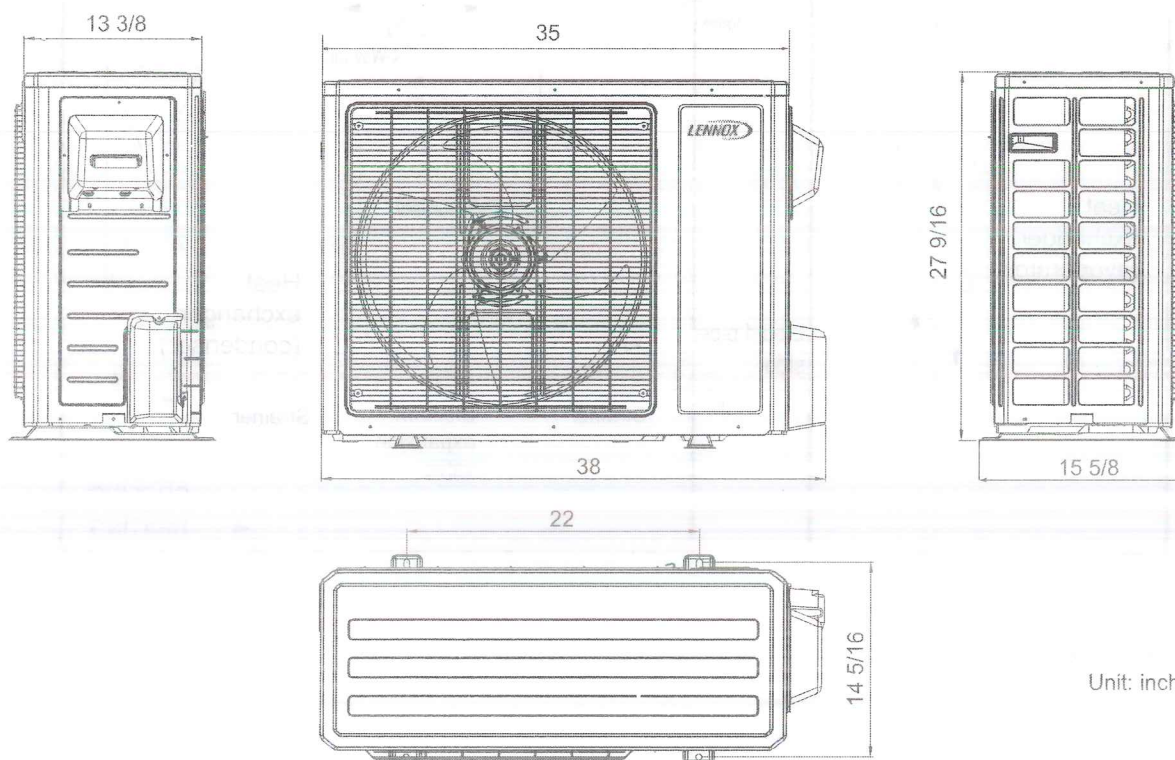
MODEL	W	H	D
LI012CI-180P432 LI012CO-180P432 LI012HI-180P432 LI012HO-180P432	33 1/4	11 3/8	8 1/4
LI024CI-180P432 LI024CO-180P432 LI024HI-180P432 LI024HO-180P432	42 7/16	12 13/16	9 11/16

3.2 Outdoor Unit



Unit: inch

LI024CO-180P432
LI024HO-180P432

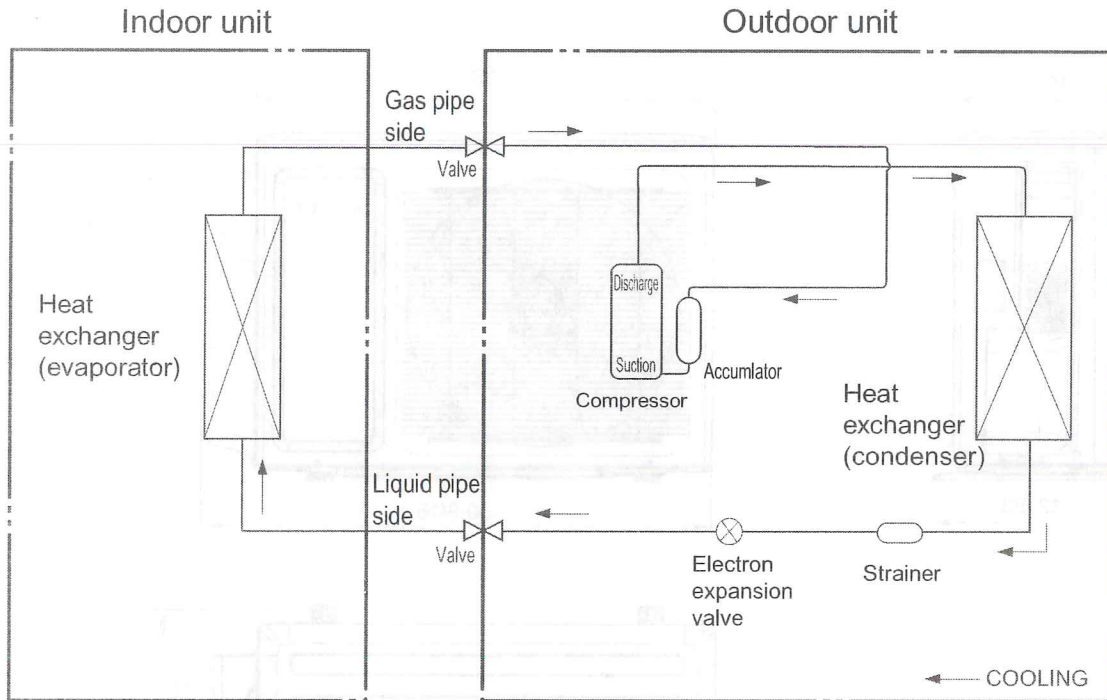


Unit: inch

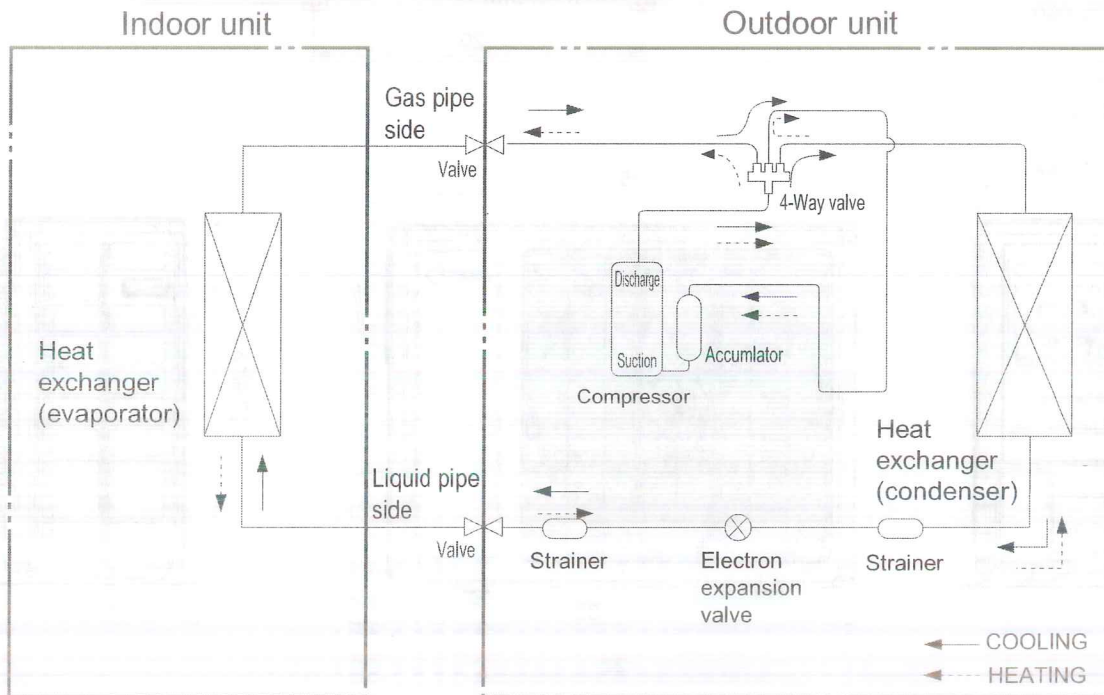
4. Refrigerant System Diagram

LI012CI-180P432

LI012CO-180P432



LI012HI-180P432 LI012HO-180P432

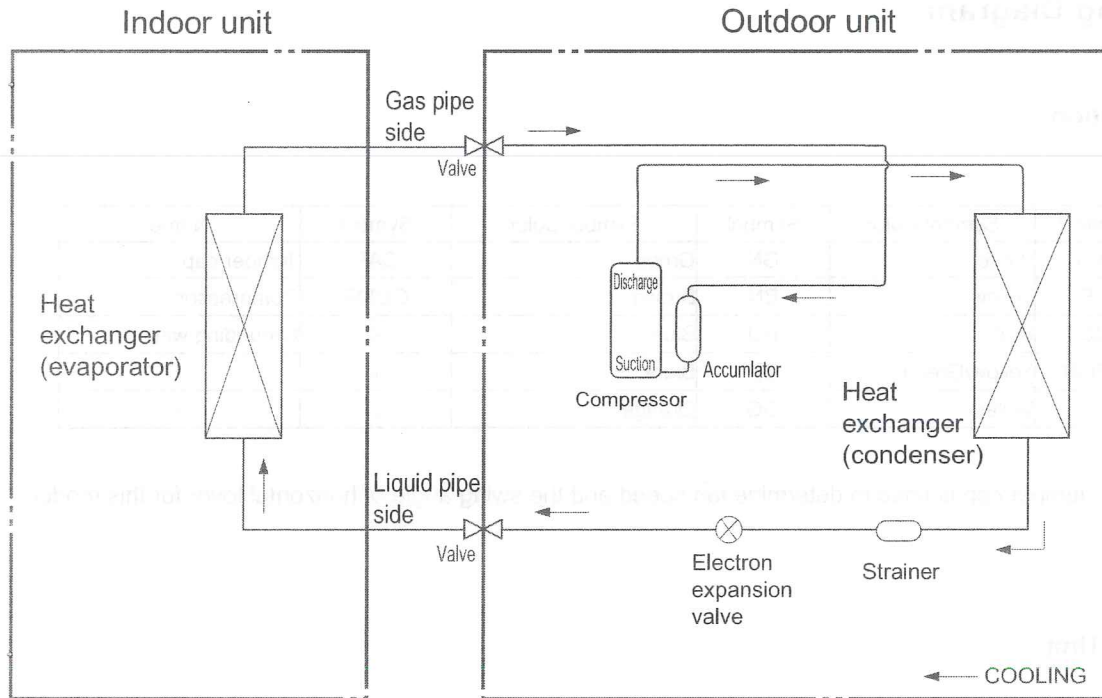


Connection pipe specification:

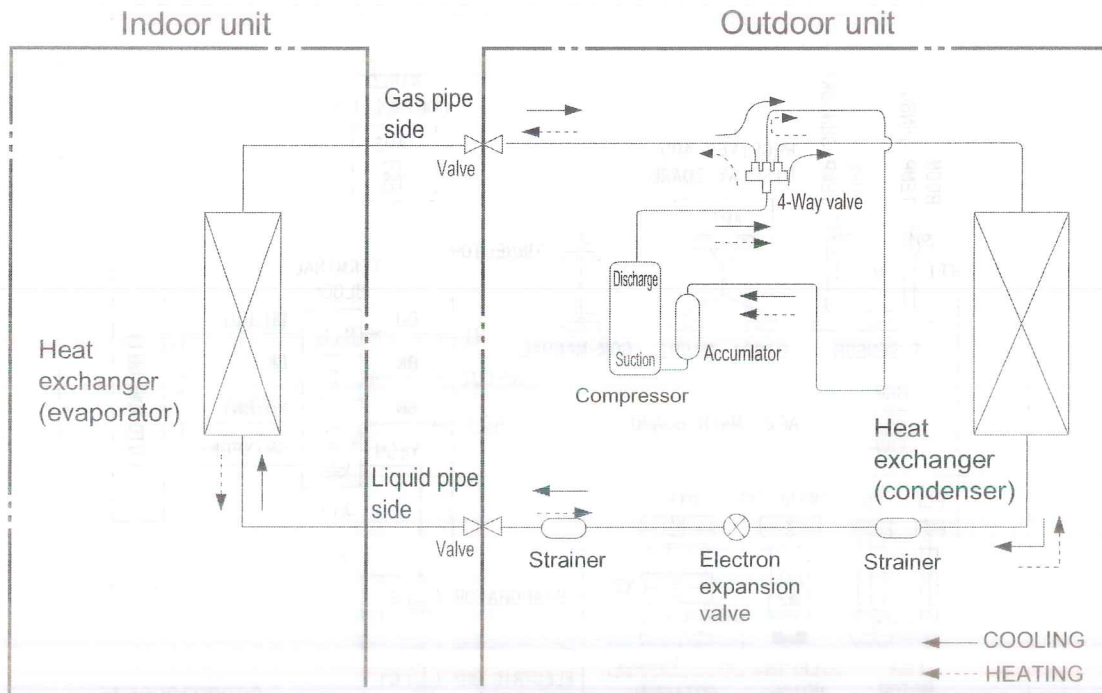
Liquid pipe: 1/4"

Gas pipe: 3/8"

LI024CI-180P432 LI024CO-180P432



LI024HI-180P432 LI024HO-180P432



Connection pipe specification:

Liquid pipe: 1/4"

Gas pipe: 1/2" for 18K

Gas pipe: 5/8" for 24K

5. Electrical Part

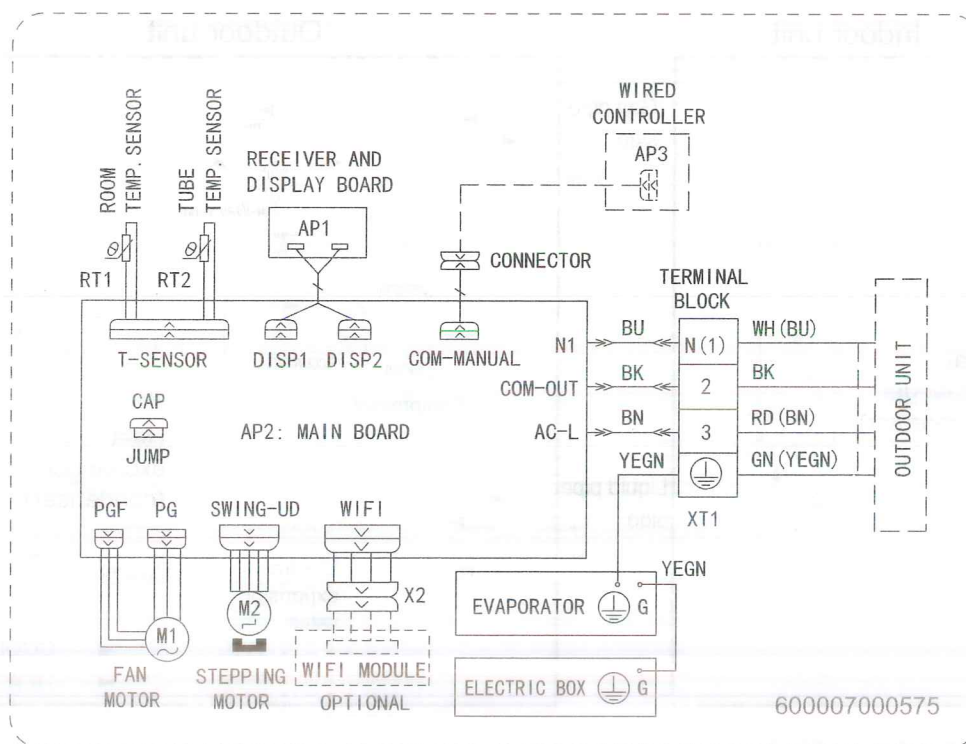
5.1 Wiring Diagram

• 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	/	/

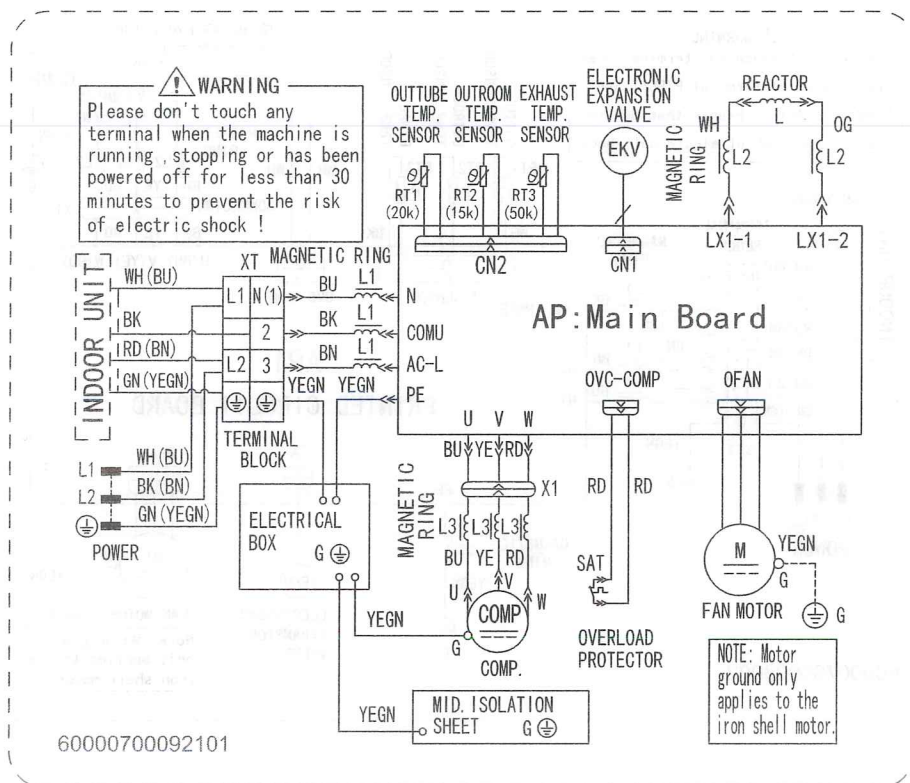
Note: Jumper cap is used to determine fan speed and the swing angle of horizontal lover for this model.

• Indoor Unit

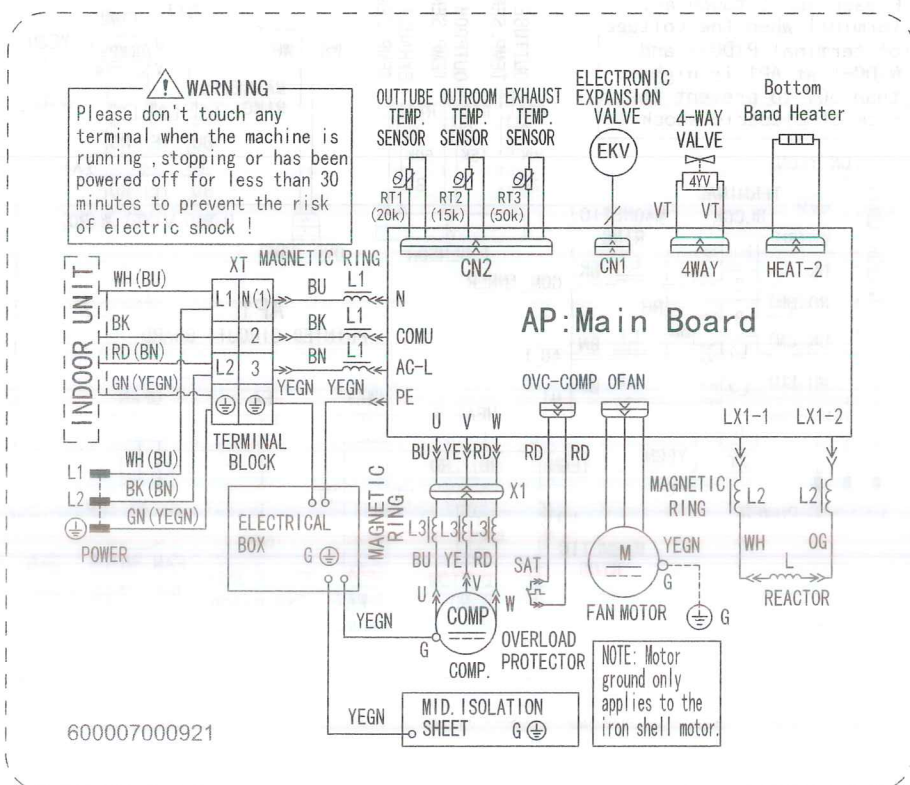


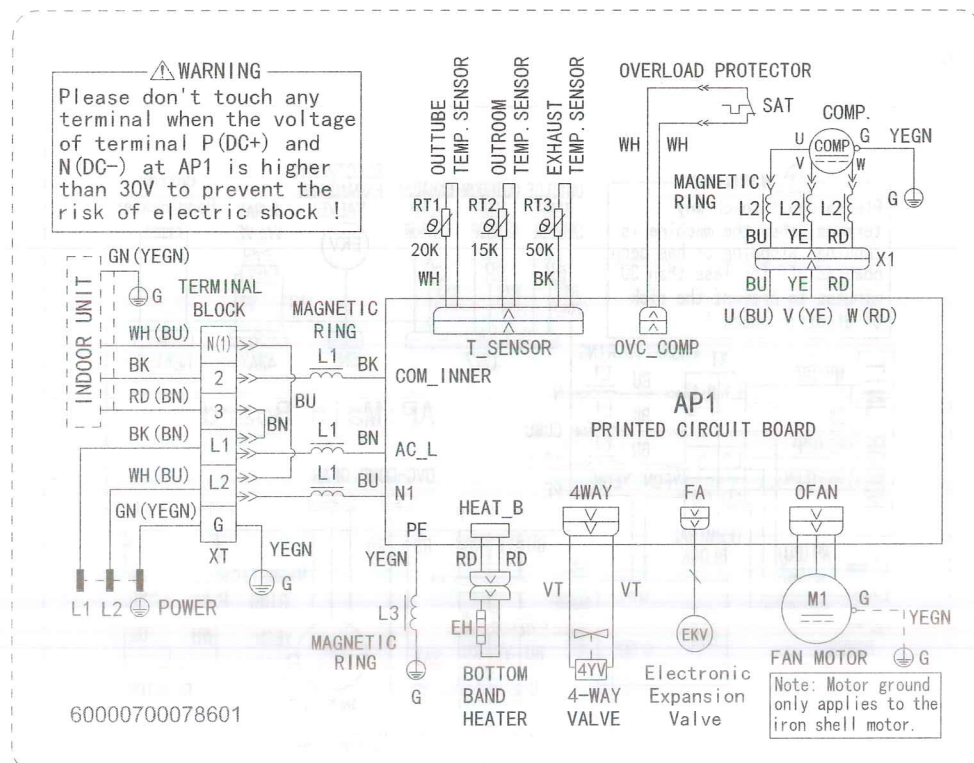
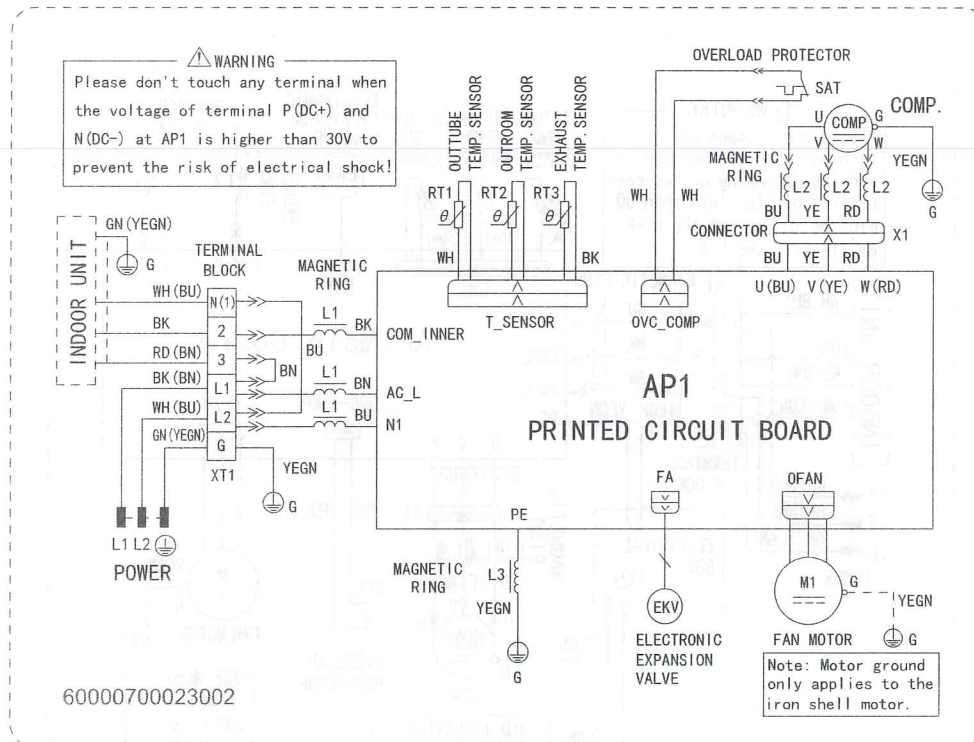
• Outdoor Unit

LI012CO-180P432



LI012HO-180P432





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