



Submittal:

Models: LM012CI-100P232-1X/LM012CO-100P232-1X
LM012HI-100P232-1X/LM012HO-100P232-1X
LM018CI-100P232-1X/LM018CO-100P232-1X
LM018HI-100P232-1X/LM018HO-100P232-1X
LM024CI-100P232-1X/LM024CO-100P232-1X
LM024HI-100P232-1X/LM024HO-100P232-1X
(Refrigerant:R22)

Thank you for selecting LENNOX air conditioners.

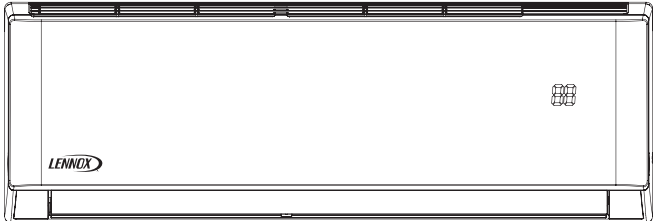


Submittal Standard Efficiency R22 On-Off

1. Summary

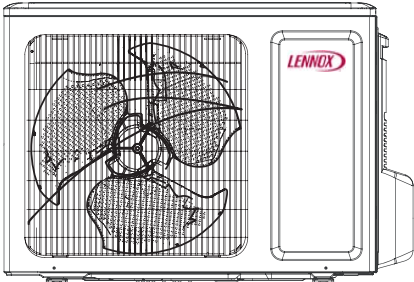
Indoor Unit:

- LM012CI-100P232-1X
- LM012HI-100P232-1X
- LM018CI-100P232-1X
- LM018HI-100P232-1X
- LM024CI-100P232-1X
- LM024HI-100P232-1X

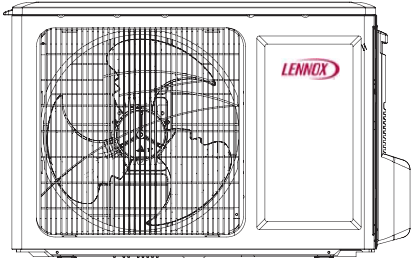


Outdoor Unit:

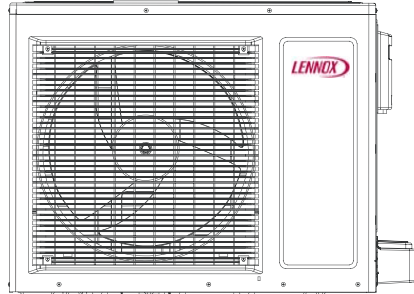
- LM012CO-100P232-1X
- LM012HO-100P232-1X



- LM018CO-100P232-1X
- LM018HO-100P232-1X



- LM024CO-100P232-1X
- LM024HO-100P232-1X



Remote Controller

Y6185



2. Specifications

2.1 Specification Sheet

Model			LM012CI-100P232-1X/ LM012CO-100P232-1X	LM012HI-100P232-1X/ LM012HO-100P232-1X
Product Code			Y6689/Y6690	Y6699/Y6700
Power Supply	Rated Voltage	V~	230	230
	Rated Frequency	Hz	60	60
	Phases		1	1
Power Supply Mode			Indoor	Indoor
Cooling Capacity		W	3370	3270
Heating Capacity		W	/	3500
Cooling Power Input		W	1204	1168
Heating Power Input		W	/	1150
Cooling Power Current		A	6	5
Heating Power Current		A	/	5.1
Rated Input		W	1520	1500
Rated Current		A	8	7
Air Flow Volume (SH/H/M/L/SL)		m ³ /h	550/460/380/300/-	550/460/380/300/-
Dehumidifying Volume		L/h	1	1
EER		W/W	3	3
COP		W/W	/	3
SEER		W/W	/	/
HSPF		W/W	/	/
Application Area		m ²	16-24	16-24
Indoor Unit	Model of indoor unit		LM012CI-100P232-1X	LM012HI-100P232-1X
	Indoor Unit Product Code		Y6689	Y6699
	Fan Type		Cross-flow	Cross-flow
	Diameter Length(DXL)		mm	Φ98X580
	Fan Motor Cooling Speed (SH/H/M/L/SL)		r/min	1450/1200/1050/800/-
	Fan Motor Heating Speed (SH/H/M/L/SL)		r/min	/
	Output of Fan Motor		W	20
	Fan Motor RLA		A	0.2
	Fan Motor Capacitor		μF	1
	Input of Heater		W	/
	Evaporator Form			Aluminum Fin-copper Tube
	Pipe Diameter		mm	Φ5
	Row-fin Gap		mm	2-1.4
	Coil Length (LXD _X W)		mm	584X22.8X266.7
	Swing Motor Model			MP24AA
	Output of Swing Motor		W	1.5
	Fuse		A	3.15
	Sound Pressure Level (SH/H/M/L/SL)		dB (A)	42/36/33/28/-
	Sound Power Level (SH/H/M/L/SL)		dB (A)	52/46/43/38/-
	Dimension (WXHXD)		mm	790X200X275
	Dimension of Carton Box (LXWXH)		mm	850X262X339
	Dimension of Package (LXWXH)		mm	853X265X354
	Net Weight		kg	9
Gross Weight		kg	11	

Outdoor Unit	Model of Outdoor Unit		LM012CO-100P232-1X	LM012HO-100P232-1X
	Outdoor Unit Product Code		Y6690	Y6700
	Compressor Manufacturer/Trademark		ZHUHAI LANDA COMPRESSOR CO., LTD.	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model		QX-B18rC030	QX-B172rC030
	Compressor Oil		ATMOS NM56EP	ATMOS NM56EP & ATMOS 56G
	Compressor Type		Rotary	Rotary
	L.R.A.	A	29	29
	Compressor RLA	A	5	5
	Compressor Power Input	W	1155	1150
	Overload Protector		UP3-02A	UP3-02A
	Throttling Method		Capillary	Capillary
	Operation Temp	°C	16~30	16~30
	Ambient Temp (Cooling)	°C	18~48	18~43
	Ambient Temp (Heating)	°C	/	-7~24
	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ5	Φ7.94
	Rows-fin Gap	mm	1-1.3	1-1.4
	Coil Length (LXD _{XW})	mm	709X11.4X495.3	709X19.05X495.3
	Fan Motor Speed	rpm	800	800
	Output of Fan Motor	W	35	35
	Fan Motor RLA	A	0.34	0.34
	Fan Motor Capacitor	μF	2.5	2.5
	Air Flow Volume of Outdoor Unit	m ³ /h	1600	1600
	Fan Type		Axial-flow	Axial-flow
	Fan Diameter	mm	Φ394.5	Φ394.5
	Defrosting Method		/	/
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	3	3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	1.5	1.5
	Sound Pressure Level (H/M/L)	dB (A)	50/-/-	52/-/-
	Sound Power Level (H/M/L)	dB (A)	60/-/-	62/-/-
Dimension (WXHXD)	mm	776X540X320	776X540X320	
Dimension of Carton Box (LXWXH)	mm	820X355X580	820X355X580	
Dimension of Package (LXWXH)	mm	823X358X595	823X358X595	
Net Weight	kg	27	29	
Gross Weight	kg	29.5	31.5	
Refrigerant		R22	R22	
Refrigerant Charge	kg	0.43	0.65	
Connection Pipe	Length	m	5	5
	Gas Additional Charge	g/m	15	15
	Outer Diameter Liquid Pipe	mm	Φ6	Φ6
	Outer Diameter Gas Pipe	mm	Φ12	Φ12
	Max Distance Height	m	10	10
	Max Distance Length	m	20	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.

Model			LM018CI-100P232-1X/ LM018CO-100P232-1X	LM018HI-100P232-1X/ LM018HO-100P232-1X
Product Code			Y6691/Y6692	Y6701/Y6702
Power Supply	Rated Voltage	V~	230	230
	Rated Frequency	Hz	60	60
	Phases		1	1
Power Supply Mode			Indoor	Indoor
Cooling Capacity		W	4980	4836
Heating Capacity		W	/	5000
Cooling Power Input		W	1765	1740
Heating Power Input		W	/	1550
Cooling Power Current		A	7.83	7.72
Heating Power Current		A	/	6.88
Rated Input		W	2300	2240
Rated Current		A	11.2	11.1
Air Flow Volume(SH/H/M/L/SL)		m ³ /h	900/855/825/765/-	850/800/760/720/-
Dehumidifying Volume		L/h	1.7	1.8
EER		W/W	2.82	2.78
COP		W/W	/	3.20
SEER		W/W	/	/
HSPF		W/W	/	/
Application Area		m ²	23-34	23-34
Indoor Unit	Model of indoor unit		LM018CI-100P232-1X	LM018HI-100P232-1X
	Indoor Unit Product Code		Y6691	Y6701
	Fan Type		Cross-flow	Cross-flow
	Diameter Length(DXL)		mm	Φ106X706
	Fan Motor Cooling Speed(SH/H/M/L/SL)		r/min	1350/1200/1050/900/-
	Fan Motor Heating Speed(SH/H/M/L/SL)		r/min	/
	Output of Fan Motor		W	35
	Fan Motor RLA		A	0.35
	Fan Motor Capacitor		μF	2.5
	Input of Heater		W	/
	Evaporator Form			Aluminum Fin-copper Tube
	Pipe Diameter		mm	Φ7
	Row-fin Gap		mm	2-1.4
	Coil Length (LXDXW)		mm	715X25.4X304.8
	Swing Motor Model			MP35CJ
	Output of Swing Motor		W	2.5
	Fuse		A	3.15
	Sound Pressure Level (SH/H/M/L/SL)		dB (A)	47/44/40/36/-
	Sound Power Level (SH/H/M/L/SL)		dB (A)	57/54/50/46/-
	Dimension (WXHXD)		mm	970X300X224
	Dimension of Carton Box (LXWXH)		mm	1038X380X305
	Dimension of Package (LXWXH)		mm	1041X383X320
Net Weight		kg	13.5	
Gross Weight		kg	16.5	

Outdoor Unit	Model of Outdoor Unit		LM018CO-100P232-1X	LM018HO-100P232-1X
	Outdoor Unit Product Code		Y6692	Y6702
	Compressor Manufacturer/Trademark		ZHUHAI LANDA COMPRESSOR CO. LTD.	ZHUHAI LANDA COMPRESSOR CO. LTD.
	Compressor Model		QX-D253RF050A	QX-D253rF050A
	Compressor Oil		ATMOS-NM56EP	ATMOS-NM56EP
	Compressor Type		Rotary	Rotary
	L.R.A.	A	39	39
	Compressor RLA	A	7.5	7.5
	Compressor Power Input	W	1655	1655
	Overload Protector		Internal(UP3-A6)	Internal(UP3-A6)
	Throttling Method		Capillary	Capillary
	Operation Temp	°C	16~30	16~30
	Ambient Temp (Cooling)	°C	18~43	18~43
	Ambient Temp (Heating)	°C	/	-7~24
	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ5	Φ7
	Rows-fin Gap	mm	2-1.4	2-1.4
	Coil Length (LXDXW)	mm	763X22.8X495.3	763X22.8X495.3
	Fan Motor Speed	rpm	920	920
	Output of Fan Motor	W	40	40
	Fan Motor RLA	A	0.48	0.48
	Fan Motor Capacitor	μF	2.5	2.5
	Air Flow Volume of Outdoor Unit	m ³ /h	1800	1800
	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	3	3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	1.5	1.5
	Sound Pressure Level (H/M/L)	dB (A)	53/-/-	53/-/-
	Sound Power Level (H/M/L)	dB (A)	63/-/-	63/-/-
Dimension (WXHXD)	mm	848X540X320	848X540X320	
Dimension of Carton Box (LXWXH)	mm	878X360X580	878X360X580	
Dimension of Package (LXWXH)	mm	881X363X595	881X363X595	
Net Weight	kg	36	38	
Gross Weight	kg	39	40.5	
Refrigerant		R22	R22	
Refrigerant Charge	kg	0.9	1.2	
Connection Pipe	Length	m	5	5
	Gas Additional Charge	g/m	15	15
	Outer Diameter Liquid Pipe	mm	Φ6	Φ6
	Outer Diameter Gas Pipe	mm	Φ12	Φ12
	Max Distance Height	m	10	10
	Max Distance Length	m	25	25
	Note: The connection pipe applies metric diameter.			

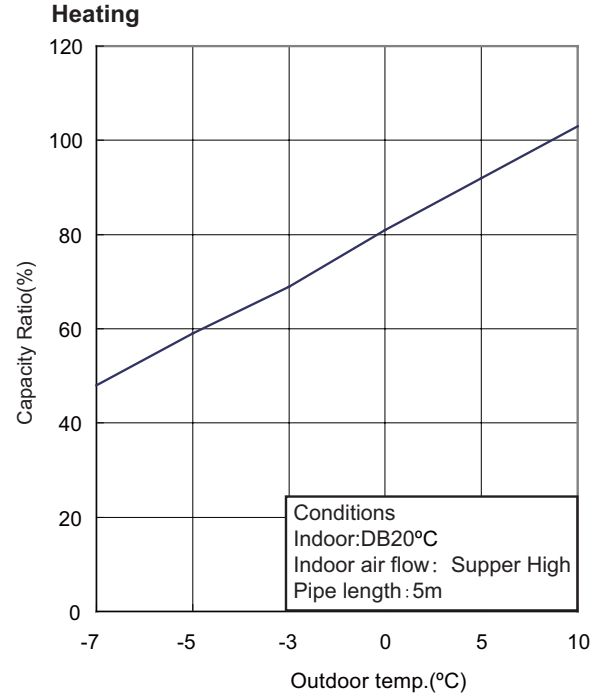
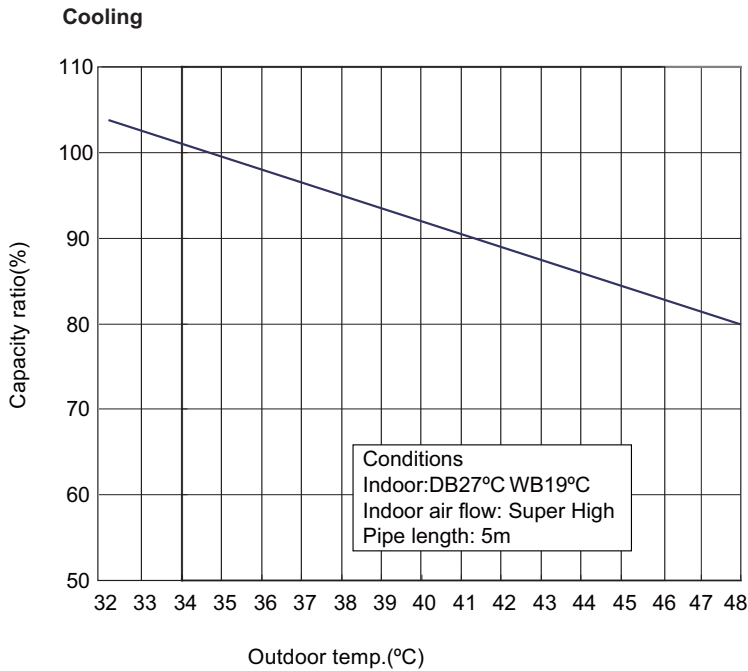
The above data is subject to change without notice; please refer to the nameplate of the unit.

Model			LM024CI-100P232-1X/ LM024CO-100P232-1X	LM024HI-100P232-1X/ LM024HO-100P232-1X	
Product Code			Y6693/Y6694	Y6703/Y6704	
Power Supply	Rated Voltage	V~	230	230	
	Rated Frequency	Hz	60	60	
	Phases		1	1	
Power Supply Mode			Indoor	Indoor	
Cooling Capacity		W	6448	6448	
Heating Capacity		W	/	6600	
Cooling Power Input		W	2302	2303	
Heating Power Input		W	/	1940	
Cooling Power Current		A	10.7	11	
Heating Power Current		A	/	9	
Rated Input		W	3200	3500	
Rated Current		A	14.8	16	
Air Flow Volume(SH/H/M/L/SL)		m ³ /h	1200/1060/930/800/-	1100/1000/830/730/-	
Dehumidifying Volume		L/h	2	2	
EER		W/W	2.8	2.80	
COP		W/W	/	3.40	
SEER		W/W	/	0	
HSPF		W/W	/	0	
Application Area		m ²	27-42	27-42	
Indoor Unit	Model of indoor unit		LM024CI-100P232-1X	LM024HI-100P232-1X	
	Indoor Unit Product Code		Y6693	Y6703	
	Fan Type		Cross-flow	Cross-flow	
	Diameter Length(DXL)		mm	Φ108X830	Φ108X830
	Fan Motor Cooling Speed(SH/H/M/L/SL)		r/min	1300/1150/1000/850/-	1300/1150/1000/850/-
	Fan Motor Heating Speed(SH/H/M/L/SL)		r/min	/	/
	Output of Fan Motor		W	35	35
	Fan Motor RLA		A	0.35	0.35
	Fan Motor Capacitor		μF	3	3
	Input of Heater		W	/	/
	Evaporator Form			Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter		mm	Φ7	Φ7
	Row-fin Gap		mm	2-1.4	2-1.4
	Coil Length (LXD _X W)		mm	850X25.4X381	850X25.4X381
	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/SL)		dB (A)	50/46/42/38/-	50/46/42/38/-
	Sound Power Level (SH/H/M/L/SL)		dB (A)	60/56/52/48/-	60/56/52/48/-
	Dimension (WXHXD)		mm	1078X325X246	1078X325X246
	Dimension of Carton Box (LXWXH)		mm	1145X410X335	1145X410X335
	Dimension of Package (LXWXH)		mm	1148X413X350	1148X413X350
	Net Weight		kg	16.5	16.5
Gross Weight		kg	20	20	

Outdoor Unit	Model of Outdoor Unit		LM024CO-100P232-1X	LM024HO-100P232-1X
	Outdoor Unit Product Code		Y6694	Y6704
	Compressor Manufacturer/Trademark		ZHUHAI LANDA COMPRESSOR CO.,LTD	ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QX-F305rF050	QX-F305rF050
	Compressor Oil		RB68EP	RB68EP
	Compressor Type		Rotary	Rotary
	L.R.A.	A	53	53
	Compressor RLA	A	9.3	9.3
	Compressor Power Input	W	2050	2050
	Overload Protector		Internal	Internal
	Throttling Method		Capillary	Capillary
	Operation Temp	°C	16~30	16~30
	Ambient Temp (Cooling)	°C	18~43	18~43
	Ambient Temp (Heating)	°C	/	-7~24
	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7.94	Φ7
	Rows-fin Gap	mm	1-1.4	2-1.4
	Coil Length (LXDXW)	mm	810X19.05X660	613X38.1X660
	Fan Motor Speed	rpm	780	780
	Output of Fan Motor	W	68	68
	Fan Motor RLA	A	0.75	0.75
	Fan Motor Capacitor	μF	3	3
	Air Flow Volume of Outdoor Unit	m ³ /h	2800	2800
	Fan Type		Axial-flow	Axial-flow
	Fan Diameter	mm	Φ460	Φ460
	Defrosting Method		/	/
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	3	3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	1.5	1.5
	Sound Pressure Level (H/M/L)	dB (A)	54/-/-	54/-/-
Sound Power Level (H/M/L)	dB (A)	64/-/-	64/-/-	
Dimension (WXHXD)	mm	931X680X378	931X680X378	
Dimension of Carton Box (LXWXH)	mm	994X428X725	994X428X725	
Dimension of Package (LXWXH)	mm	997X431X740	997X431X740	
Net Weight	kg	48	52	
Gross Weight	kg	52	56.5	
Refrigerant		R22	R22	
Refrigerant Charge	kg	1.15	1.45	
Connection Pipe	Length	m	5	5
	Gas Additional Charge	g/m	15	50
	Outer Diameter Liquid Pipe	mm	Φ6	Φ6
	Outer Diameter Gas Pipe	mm	Φ16	Φ16
	Max Distance Height	m	10	10
	Max Distance Length	m	25	25
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 Capacity Curve in Different Outdoor Temperature



2.3 Cooling 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
Indoor	Outdoor			T1 (°C)	T2 (°C)		
27/19	35/24	LM012CI-100P232-1X/ LM012CO-100P232-1X/ LM012HI-100P232-1X/ LM012HO-100P232-1X	0.4~0.6	in:9~11 out:11~13	in:75~85 out:37~43	Super High	High
27/19	35/24	LM018CI-100P232-1X/ LM018CO-100P232-1X/ LM018HI-100P232-1X/ LM018HO-100P232-1X	0.4~0.6	in:9~11 out:11~13	in:75~87 out:37~43	Super High	High
27/19	35/24	LM024CI-100P232-1X/ LM024CO-100P232-1X/ LM024HI-100P232-1X/ LM024HO-100P232-1X	0.5~0.6	in:8~11 out:11~12	in:75~87 out:36~43	Super High	High

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
Indoor	Outdoor			T1 (°C)	T2 (°C)		
20/-	7/6	LM012HI-100P232-1X/ LM012HO-100P232-1X	1.6~1.8	in:59~63 out:30~33	in:0~2 out:3~5	Super High	High
27/19	7/6	LM018HI-100P232-1X/ LM018HO-100P232-1X	1.8~2.0	in:59~63 out:30~33	in:0~2 out:3~5	Super High	High
27/19	7/6	LM024HI-100P232-1X/ LM024HO-100P232-1X	2.47~2.27	in:59~63 out:30~33	in:0~2 out:3~5	Super High	High

Instruction:

T1: Inlet and outlet pipe temperature of evaporator

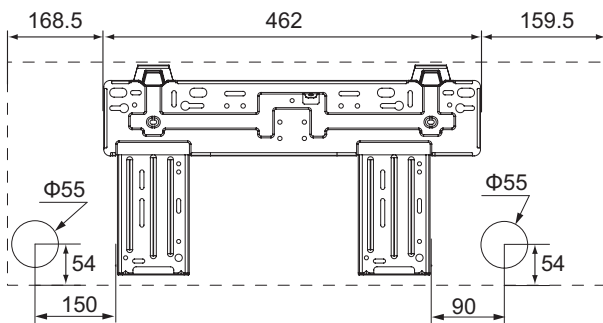
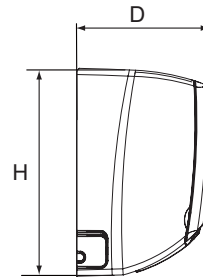
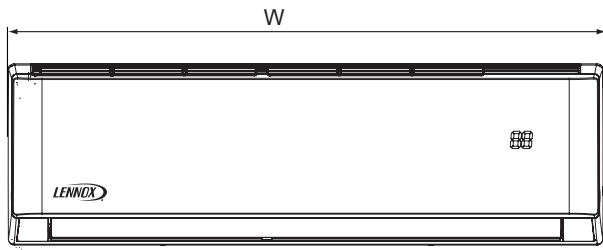
T2: Inlet and outlet pipe temperature of condenser

P: Pressure at the side of big valve

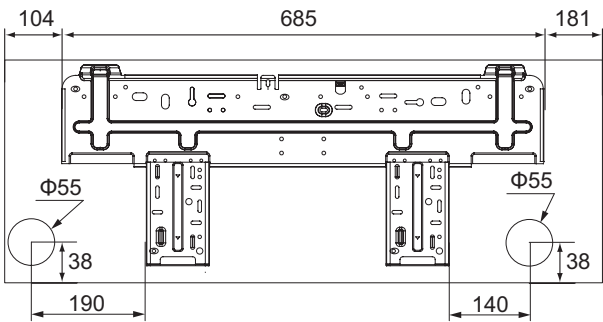
Connection pipe length: 5 m.

3. Dimensions

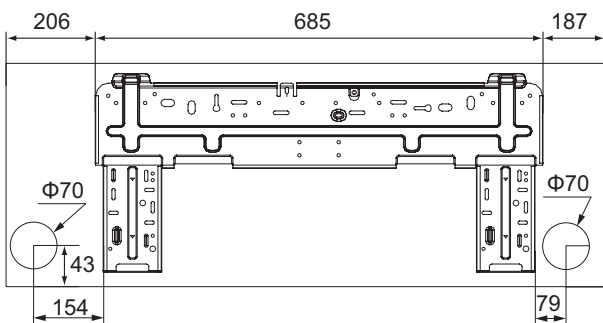
3.1 Indoor Unit



LM012CI-100P232-1X
LM012HI-100P232-1X



LM018CI-100P232-1X
LM018HI-100P232-1X



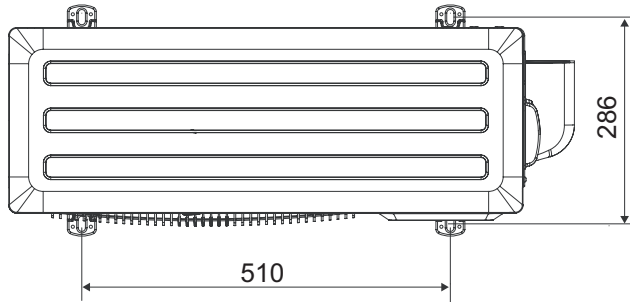
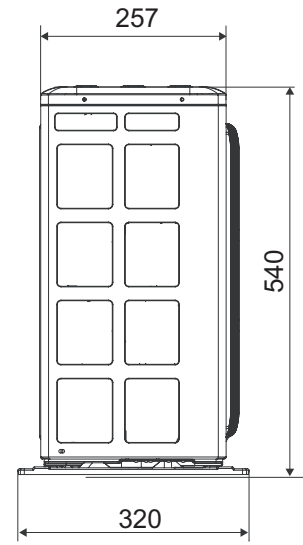
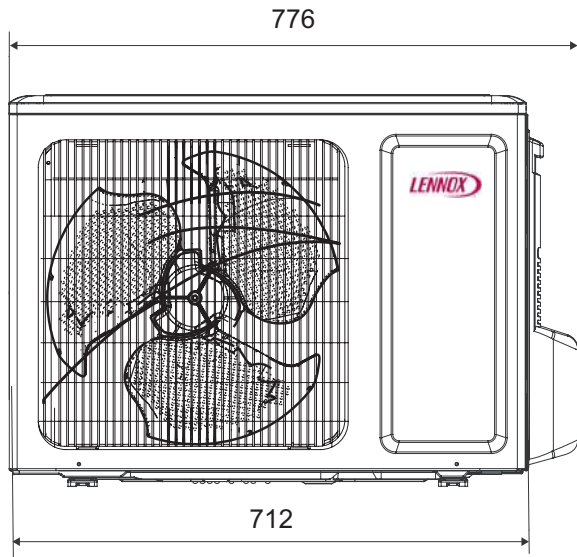
LM024CI-100P232-1X
LM024HI-100P232-1X

Unit:mm

Models	W	H	D
LM012CI-100P232-1X LM012HI-100P232-1X	790	275	200
LM018CI-100P232-1X LM018HI-100P232-1X	970	300	224
LM024CI-100P232-1X LM024HI-100P232-1X	1078	325	246

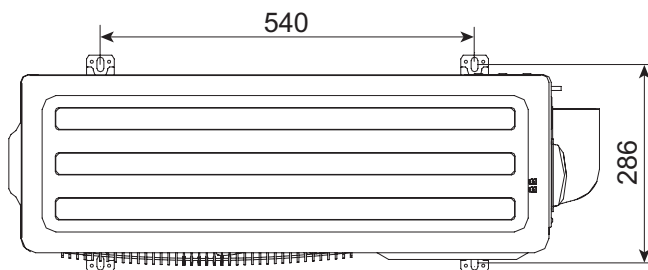
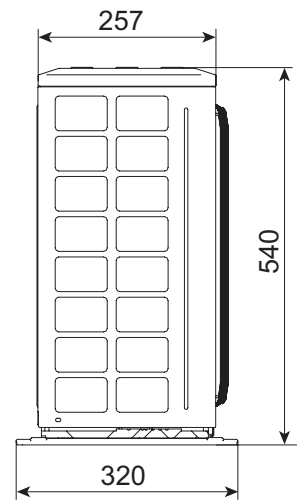
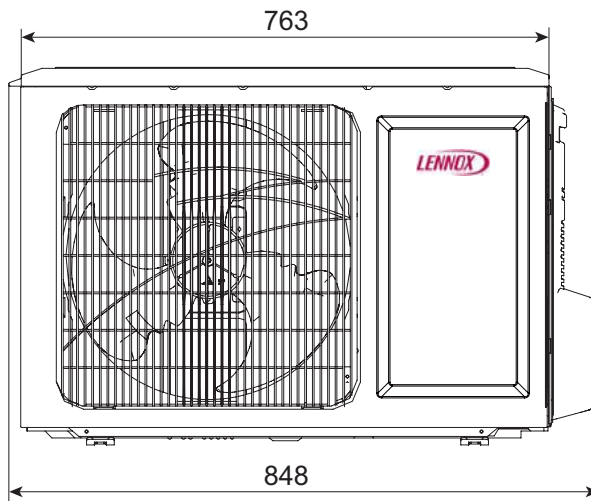
3.2 Outdoor Unit

LM012CO-100P232-1X
LM012HO-100P232-1X



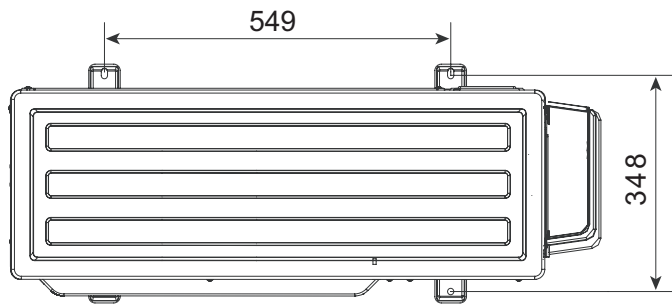
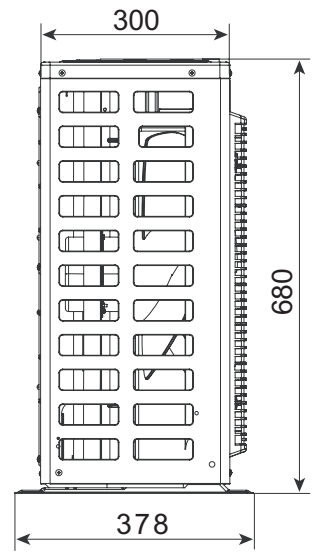
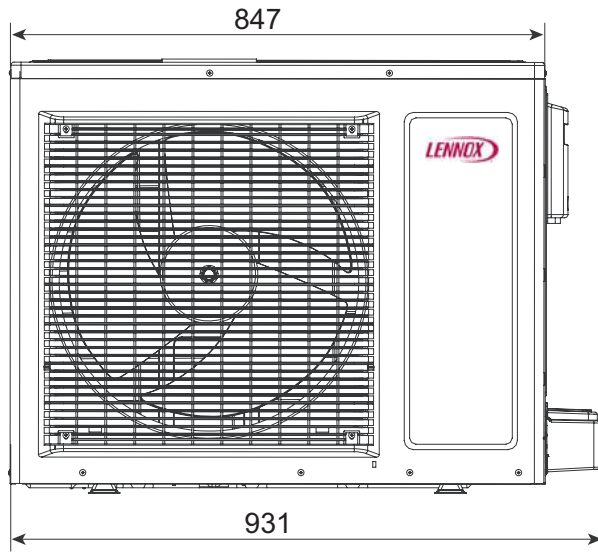
Unit:mm

LM018CO-100P232-1X
LM018HO-100P232-1X



Unit:mm

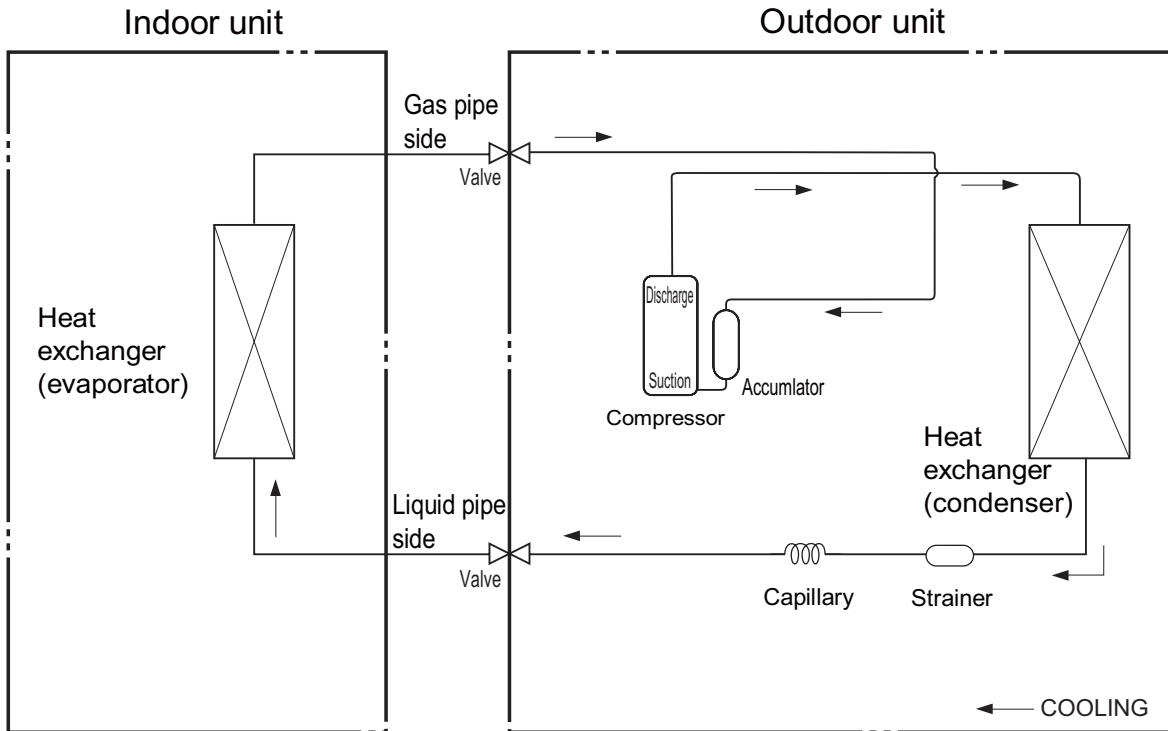
LM024CO-100P232-1X
LM024HO-100P232-1X



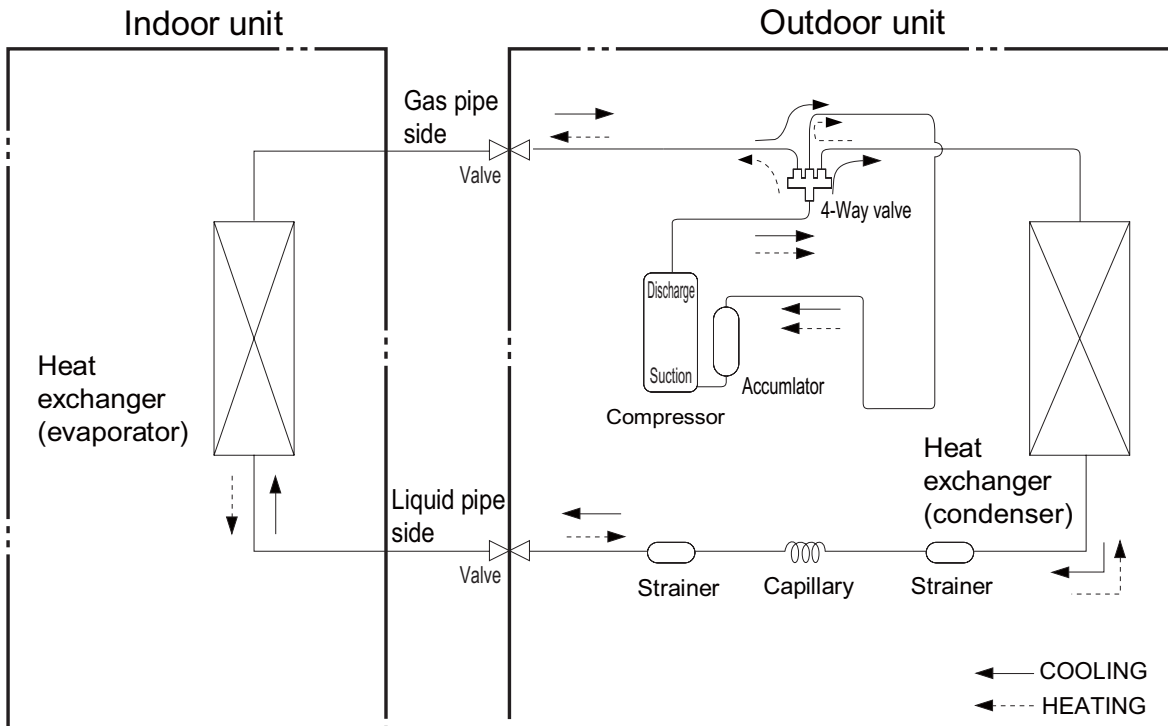
Unit:mm

4. Refrigerant System Diagram

Cooling unit



Cooling and heating unit



Connection pipe specification:

Liquid pipe: 1/4" (6mm)

Gas pipe: 1/2" (12mm)(All models except LM024CI-100P232-1X/LM024CO-100P232-1X LM024HI-100P232-1X/LM024HO-100P232-1X)

Gas pipe: 5/8" (16mm)(LM024CI-100P232-1X/LM024CO-100P232-1X LM024HI-100P232-1X/LM024HO-100P232-1X)

5. Electrical Part

5.1 Wiring Diagram

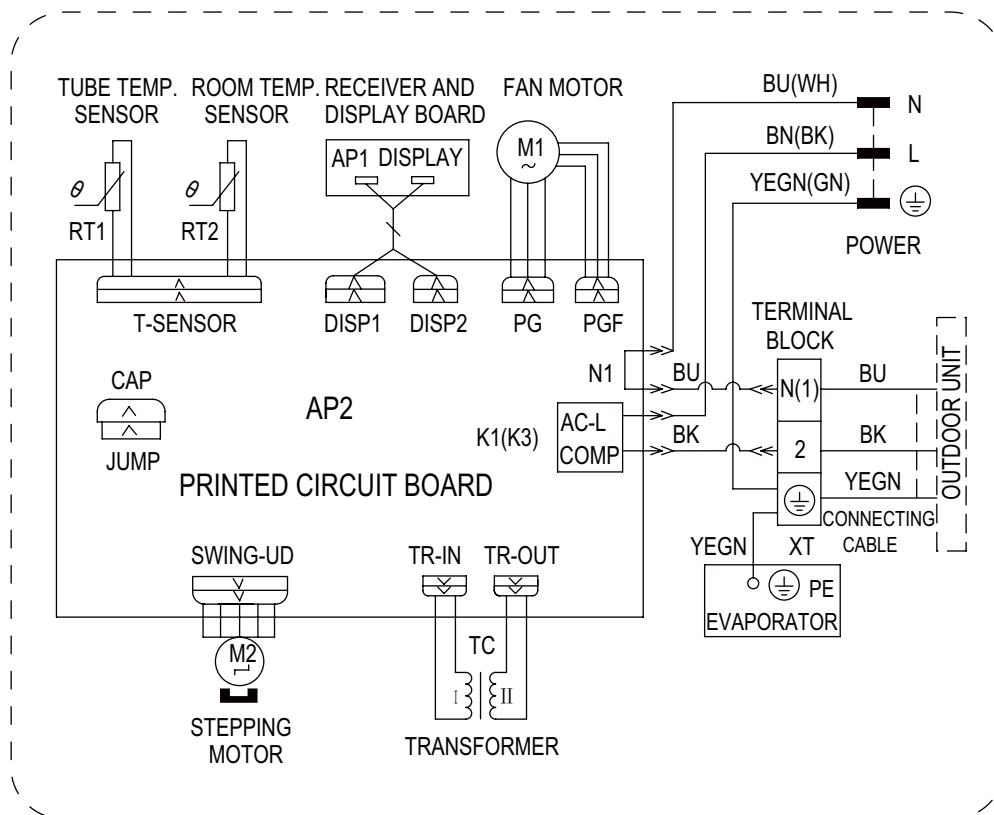
- Instruction

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	/	/

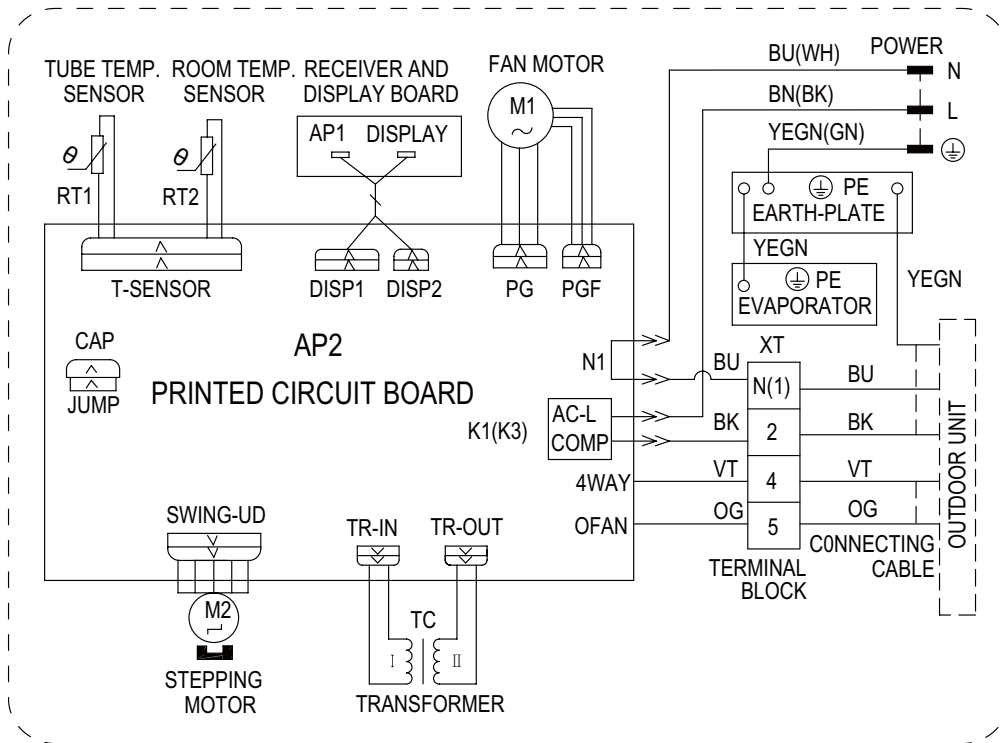
Note: Jumper cap is used to determine fan speed and the swing angle of horizontal lever for this model.

- Indoor Unit

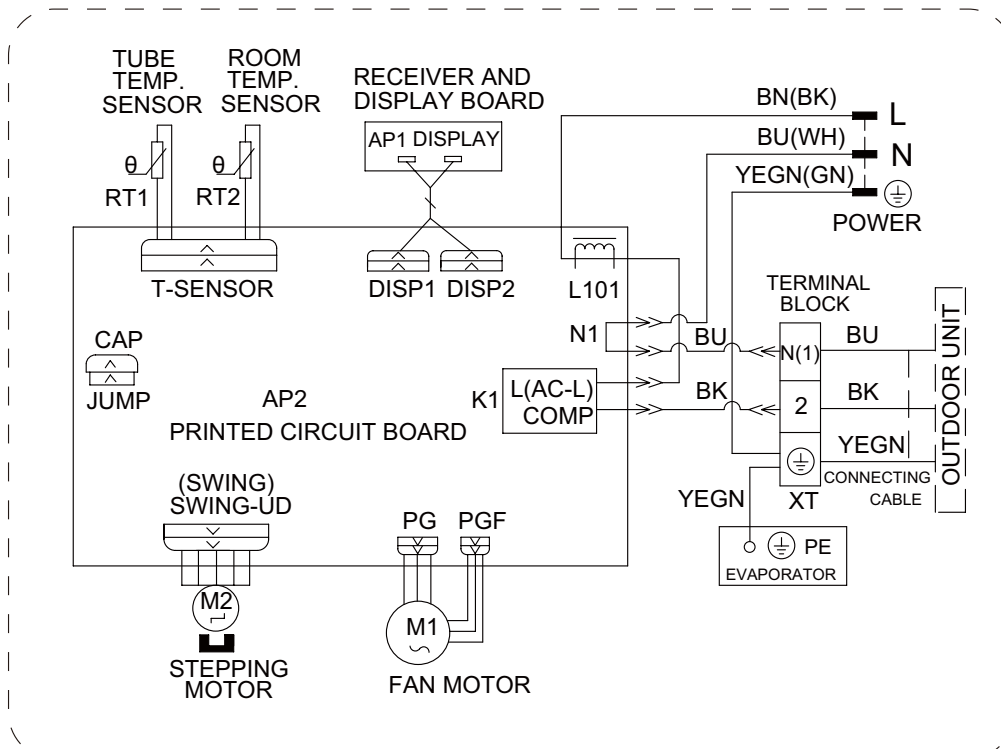
LM012CI-100P232-1X



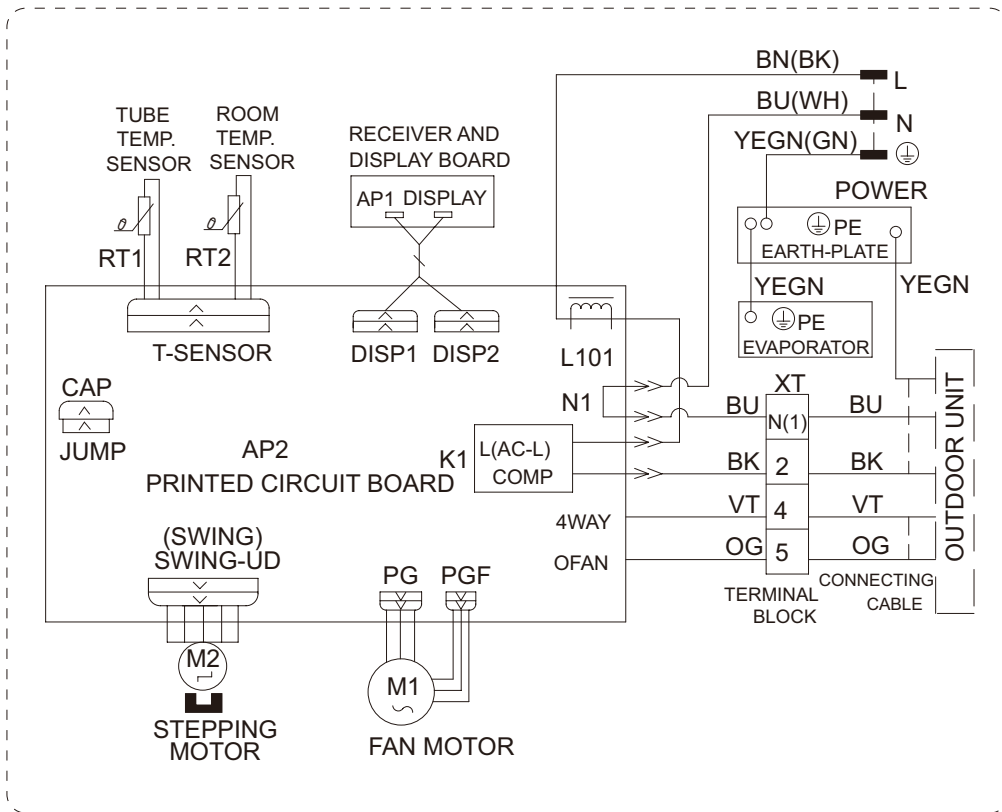
LM012HI-100P232-1X



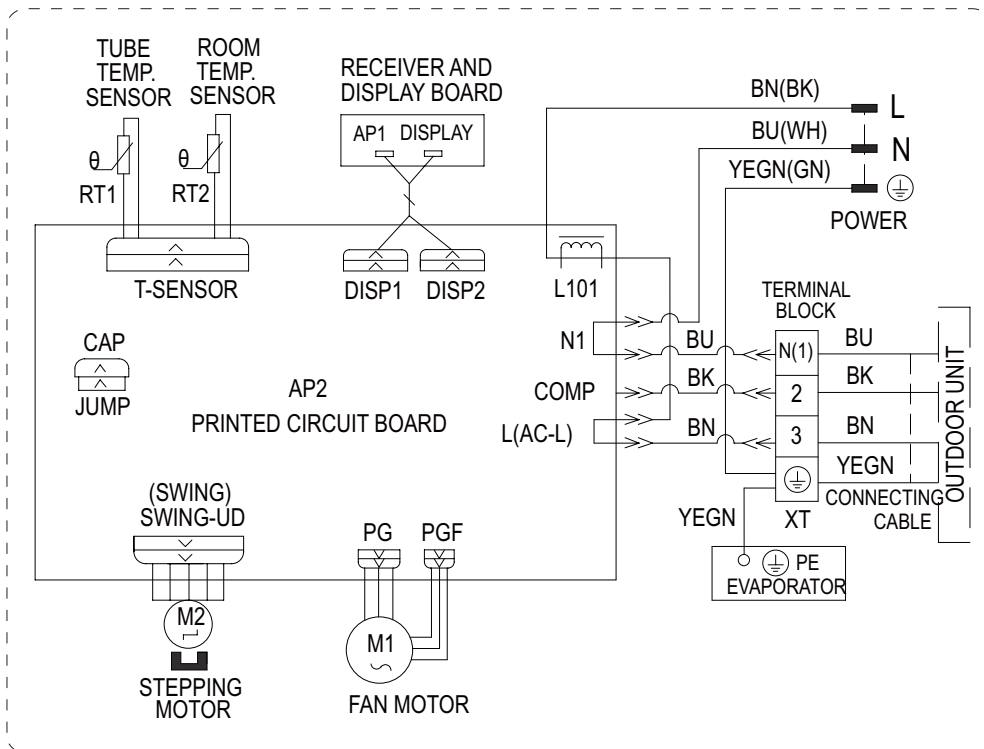
LM018CI-100P232-1X

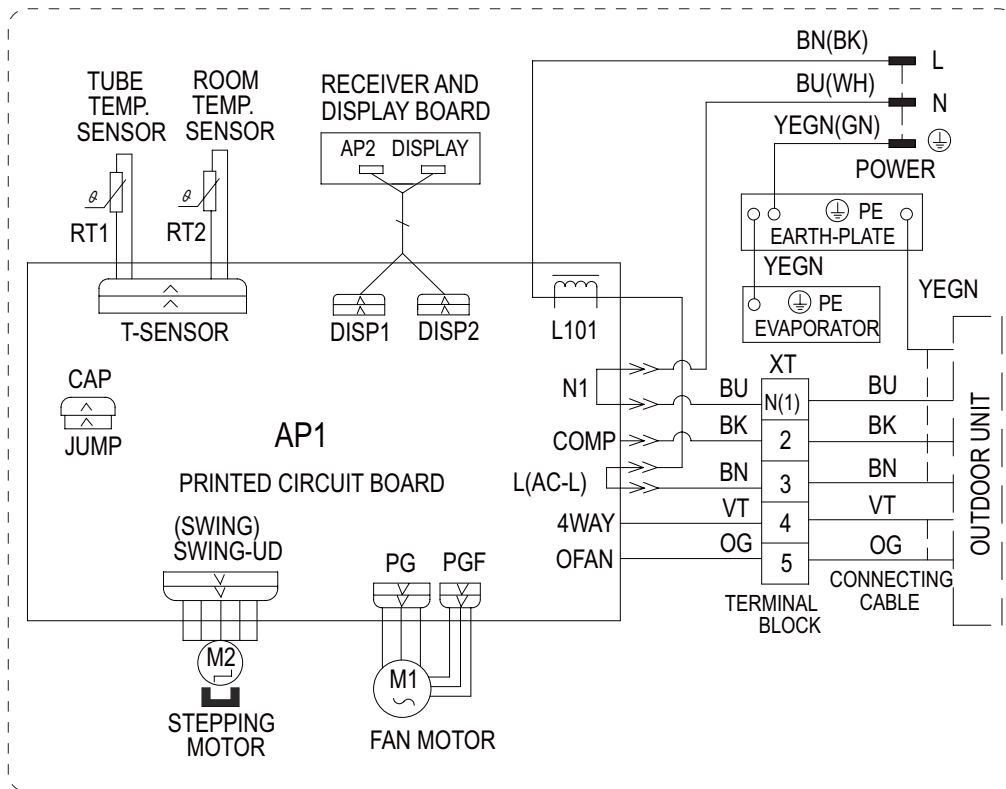


LM018HI-100P232-1X

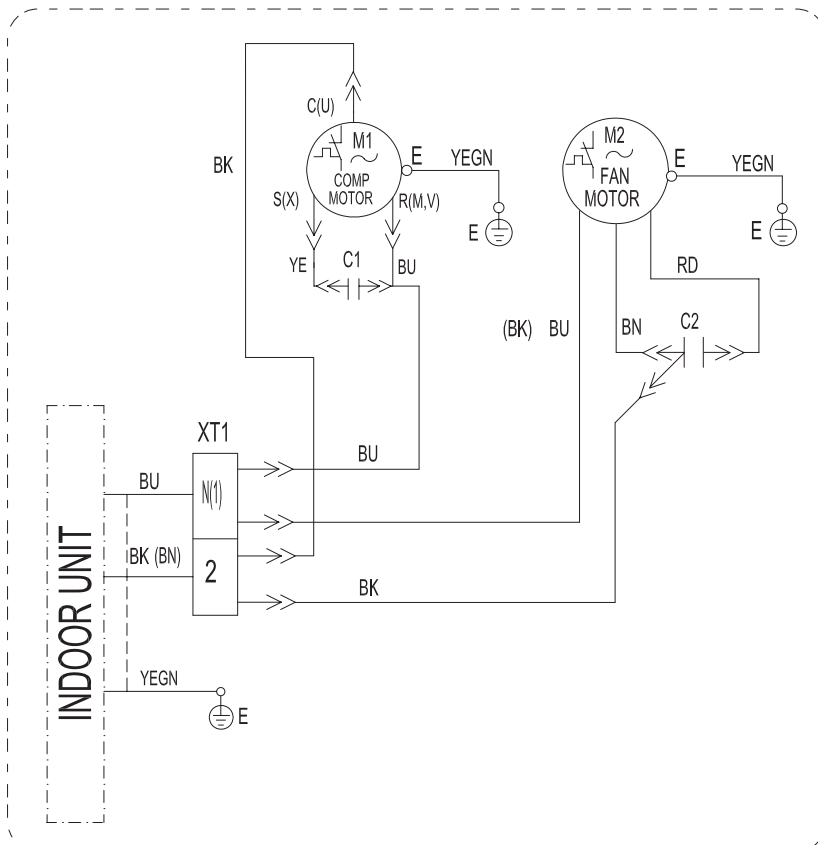


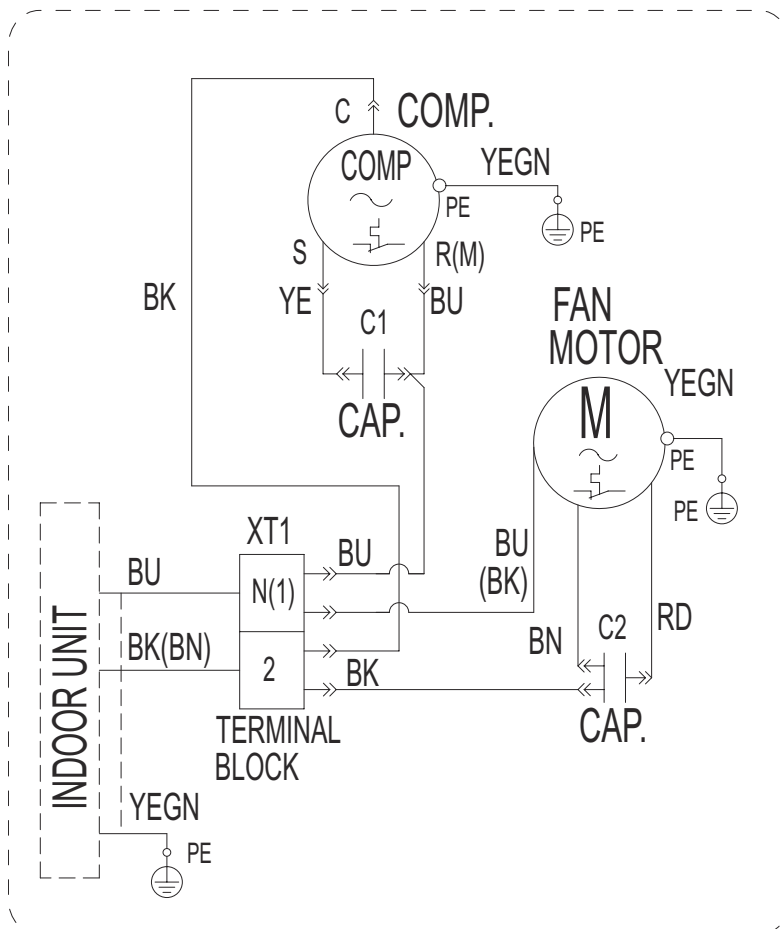
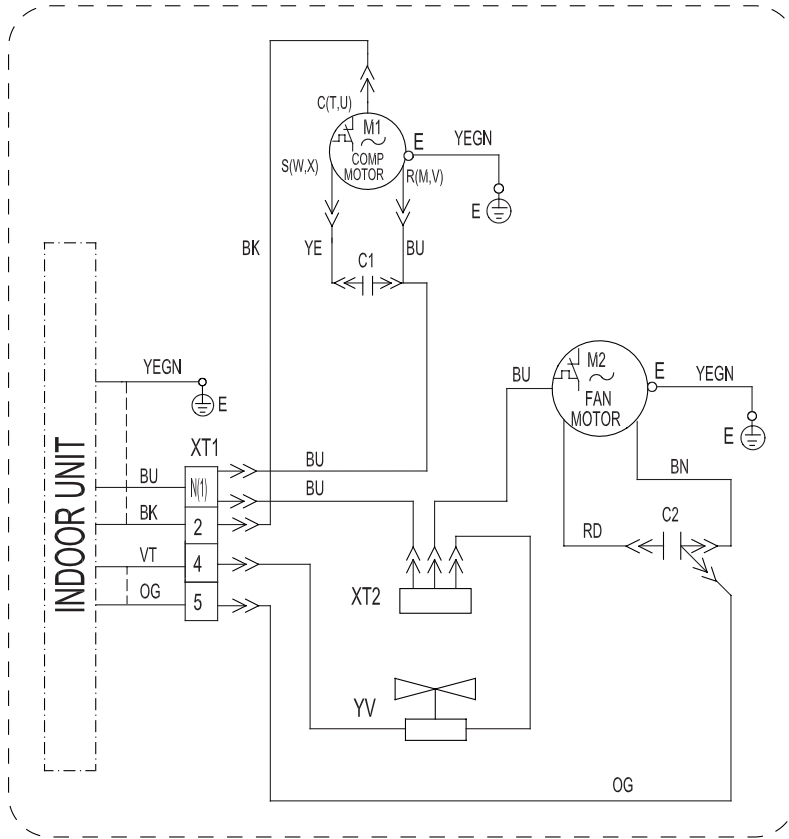
LM024CI-100P232-1X

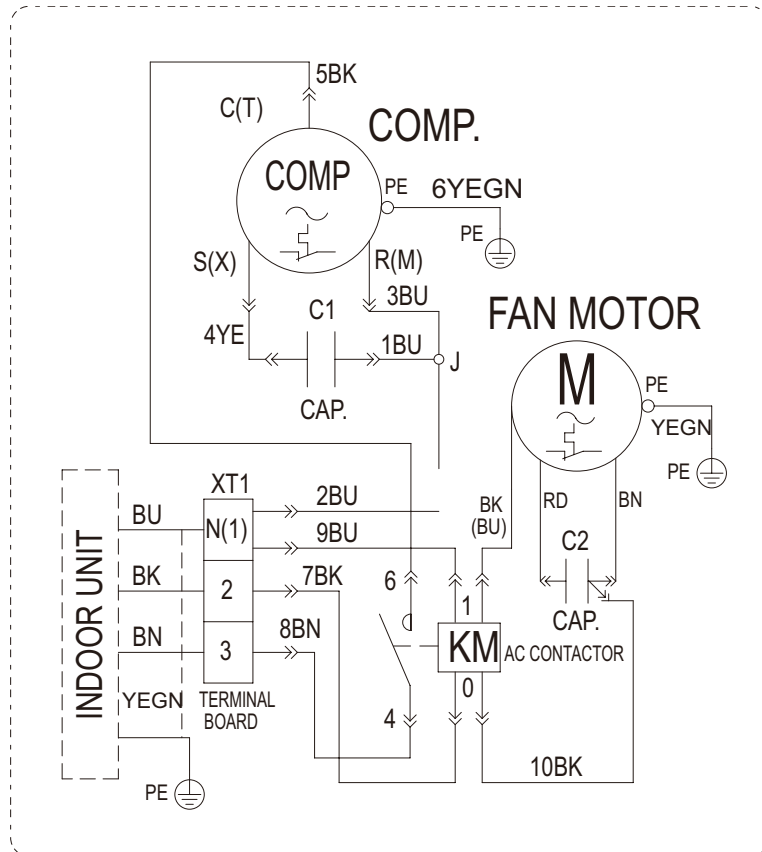
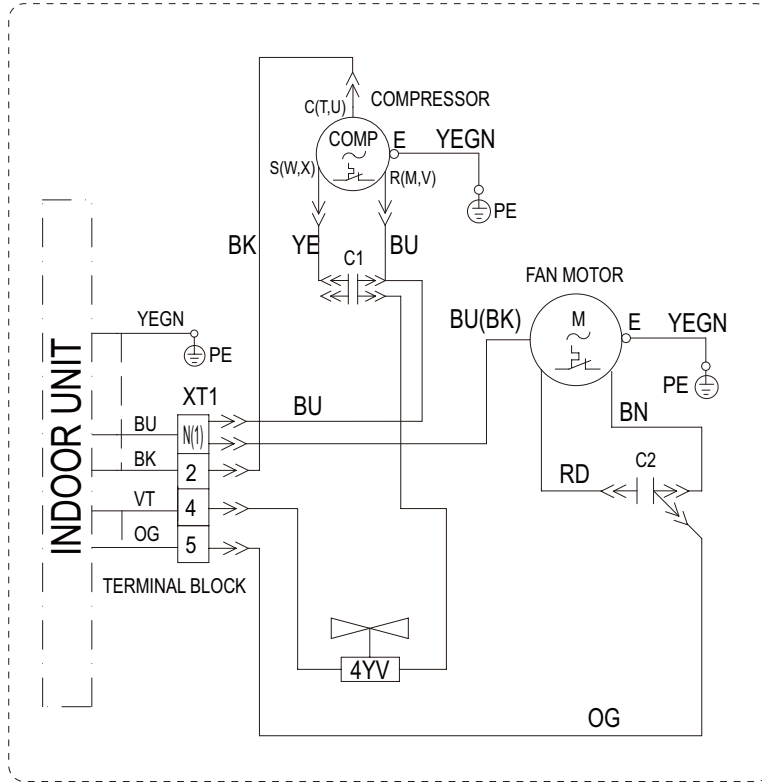


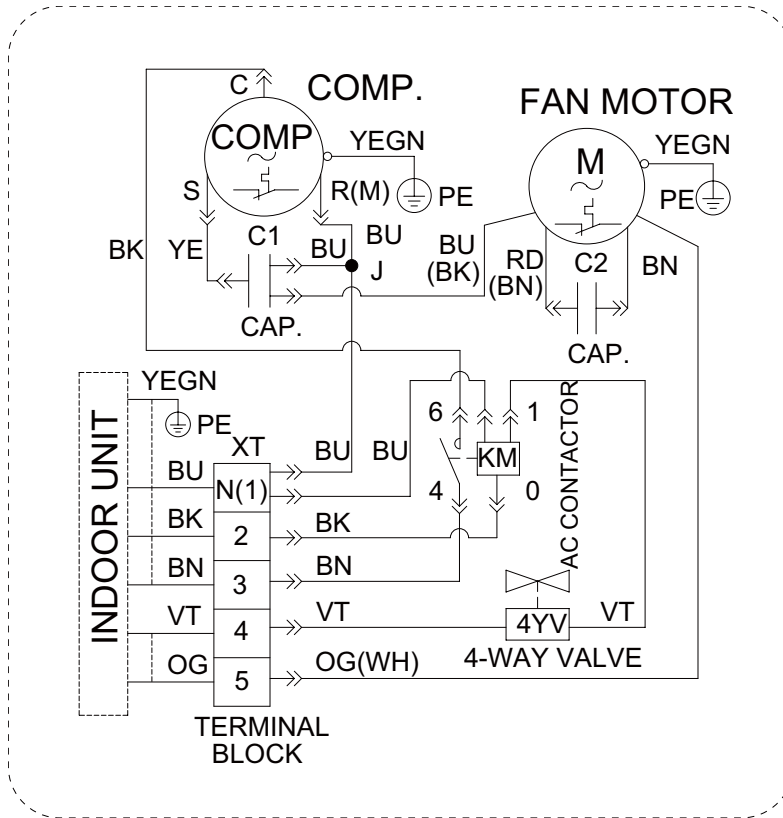


• Outdoor Unit









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