

Room Air Conditioner

SVC MANUAL(Exploded View)

MODEL : LAN090HYV3 / LAU090HYV3 (S4NW09K21FA / S4UW09K21FA)
LAN120HYV3 / LAU120HYV3 (S4NW12K21FA / S4UW12K21FA)
LAN150HYV3 / LAU150HYV3 (S4NW15L41FA / S4UW15L41FA)
LAN180HYV3 / LAU180HYV3 (S4NW18L41FA / S4UW18L41FA)
LAN240HYV3 / LAU240HYV3 (S4NW24L41FA / S4UW24L41FA)

LSN243HLV3 / LSU243HLV3 (S4NW24L43FA / S4UW24L43FA)
LSN303HLV3 / LSU303HLV3 (S4NW30R43FA / S4UW30R43FA)
LSN363HLV3 / LSU363HLV3 (S4NW36R43FA / S4UW36R43FA)

CAUTION

Before Servicing the unit, read the safety precautions in General SVC manual.
Only for authorized service personnel.

1. Product Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	LA-090HYV3 (LAN090HYV3 / LAU090HYV3)			LA-120HYV3 (LAN120HYV3 / LAU120HYV3)			
Factory Model				S4-W09K21FA (S4NW09K21FA / S4UW09K21FA)			S4-W12K21FA (S4NW12K21FA / S4UW12K21FA)			
Capacity	Cooling	Min ~ Rated ~ Max	kW	0.30	2.64	3.80	0.30	3.52	4.04	
			Btu/h	1,023	9,000	13,000	1,023	12,000	13,785	
	Heating	Min ~ Rated ~ Max	kW	0.30	3.22	6.00	0.30	3.99	6.50	
			Btu/h	1,023	11,000	20,472	1,023	13,600	22,178	
Power Input	Cooling	Min ~ Rated ~ Max	W	200	570	740	200	870	1,140	
	Heating	Min ~ Rated ~ Max	W	195	710	930	195	970	1,250	
Running Current	Cooling	Min ~ Rated ~ Max	A	2.00	3.00	8.00	2.00	4.00	9.00	
	Heating	Min ~ Rated ~ Max	A	3.00	4.00	9.00	3.00	4.50	10.00	
EER			W/W	4.63			4.04			
			(Btu/h)/W	15.79			13.79			
SEER			-	27.5			25.5			
COP			W/W	4.54			4.11			
			(Btu/h)/W	15.49			14.02			
HSPF		IV / V ¹	-	13.5 / 11.7			12.5 / 10.9			
Energy Star			-	Yes			Yes			
Tax Credit			-	Yes			Yes			
Most Efficient			-	Yes			Yes			
Power Supply			Ø, V, Hz	1, 208/230, 60			1, 208/230, 60			
Available Voltage Range		Min ~ Max	V	187 ~ 253			187 ~ 253			
Power Factor		Cooling / Heating	%	96			96			
Moisture Removal			pts/h (l/h)	3.17 (1.5)			3.59 (1.7)			
Indoor	Air Flow Rate	Cooling, Max / H / M / L	m³/min	15.0 / 12.0 / 10 / 5.2			15.0 / 12.0 / 10 / 5.2			
			CFM	530 / 424 / 353 / 184			530 / 424 / 353 / 184			
		Heating, Max / H / M / L	m³/min	15.0 / 12.0 / 10 / 5.2			15.0 / 12.0 / 10 / 5.2			
			CFM	530 / 424 / 353 / 184			530 / 424 / 353 / 184			
	Sound Pressure Level	Cooling, Max / H / M / L / SL	dB(A)	- / 42 / 36 / 26 / 22			- / 42 / 36 / 26 / 22			
		Heating, Max / H / M / L	dB(A)	- / 42 / 36 / 26			- / 42 / 36 / 26			
	Dimensions (W x H x D)	Net	mm	998 x 345 x 210			998 x 345 x 210			
			in.	39-9/32 x 13-19/32 x 8-9/32			39-9/32 x 13-19/32 x 8-9/32			
		Shipping	mm	1063 x 420 x 274			1063 x 420 x 274			
			in.	41-27/32 x 16-17/32 x 10-25/32			41-27/32 x 16-17/32 x 10-25/32			
	Weight	Net	lb. (kg)	25.1 (11.4)			25.1 (11.4)			
		Shipping	lb. (kg)	29.5 (13.4)			29.5 (13.4)			
	Disconnect Switch			A	15			15		
	Exterior Color Code			-	Munsell 7.5BG 10/2 (RAL 9016)			Munsell 7.5BG 10/2 (RAL 9016)		
	Operation Range		Maximum Relative Humidity	%	78			78		
Outdoor	Air Flow Rate	Max	m³/min	49			49			
			CFM	1730			1730			
	Sound Pressure Level	Cooling, Rated	dB(A)+1	48			48			
		Heating, Rated	dB(A)+1	50			50			
	Dimensions (W x H x D)	Net	mm	870 x 650 x 330			870 x 650 x 330			
			in.	34-1/4 x 25-19/32 x 13			34-1/4 x 25-19/32 x 13			
		Shipping	mm	1046 x 713 x 461			1046 x 713 x 461			
			in.	41-3/16 x 28-1/16 x 18-5/32			41-3/16 x 28-1/16 x 18-5/32			
	Weight	Net	lb. (kg)	93.9 (42.6)			93.9 (42.6)			
		Shipping	lb. (kg)	103.2 (46.8)			103.2 (46.8)			
	Max. Fuse Size			A	20			20		
	Exterior Color Code			-	Munsell 9.54Y 8.34/1.31 (RAL 9001)			Munsell 9.54Y 8.34/1.31 (RAL 9001)		
	Operation Range	Cooling	°F(°C)	14 ~ 118 (-10 ~ 48)			14 ~ 118 (-10 ~ 48)			
		Heating	°F(°C)	-13 ~ 65 (-25 ~ 18.3)			-13 ~ 65 (-25 ~ 18.3)			

Note :

- O : Applied, X : No relation, - : No relation
- Filters are optional in some specific areas.
- For Circuit Breaker Rating, please conform to local standards whenever necessary.
- If you use Wi-Fi, Wi-Fi module must be purchased separately.

- a) HSPF Region V = HSPF Region IV / 1.15
 - HSPF IV values comply with US standard.
 - HSPF V values comply with Canada standard.
- b) * : With wind baffle installed, the minimum temperature will be 0°F D.B. in cooling.

Buyer Model		Set (Indoor / Outdoor)		Unit	LA-090HYV3 (LAN090HYV3 / LAU090HYV3)	LA-120HYV3 (LAN120HYV3 / LAU120HYV3)
Factory Model					S4-W09K21FA (S4NW09K21FA / S4UW09K21FA)	S4-W12K21FA (S4NW12K21FA / S4UW12K21FA)
Minimum Circuit Ampacity				A	11.2	11.2
Recommended Fuse Size				A	15	15
Power Supply Cable				No. x AWG (mm²)	3 x 14 (1.5)	3 x 14 (1.5)
Power Supply to Unit				-	Outdoor	Outdoor
Power and Transmission Cable				No. x AWG (mm²)	4 x 16 (1)	4 x 16 (1)
Piping	Size	Liquid	in. (mm)	ø 1/4 (ø 6.35)	ø 1/4 (ø 6.35)	
		Gas	in. (mm)	ø 3/8 (ø 9.52)	ø 3/8 (ø 9.52)	
	Connections Method	Indoor / Outdoor	-	Flared / Flared	Flared / Flared	
Drain Hose Size		O.D. I.D	in. (mm)	25/32, 19/32 (20.0, 15.0)	25/32, 19/32 (20.0, 15.0)	
Between Indoor & Outdoor	Piping Length	Min / Standard / Max	ft. (m)	9.8 / 24.6 / 65.6(3 / 7.5 / 20)	9.8 / 24.6 / 65.6(3 / 7.5 / 20)	
		No Charge	ft. (m)	24.6 (7.5)	24.6 (7.5)	
	Max. Elevation Difference		ft. (m)	39.4 (12)	39.4 (12)	
	Piping Connection Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	
Refrigerant		Type	-	R410A	R410A	
		Pre Charge	oz. (g)	40.6 (1150)	40.6 (1150)	
		Additional Charge	oz./ft. (g/m)	0.22 (20)	0.22 (20)	
		Control	-	Electronic Expansion Valve	Electronic Expansion Valve	
Defrost Method			-	Reverse Cycle	Reverse Cycle	
Tool Code (Chassis)		Indoor / Outdoor	-	SK / U24A	SK / U24A	
Compressor	Type		-	Twin Rotary	Twin Rotary	
	Model		-	GAT134MCA	GAT134MCA	
	Motor Type		-	BLDC	BLDC	
	Oil Type / Maker		-	POE (RB68A) / Sun Oil or Jx Nippon, PVE (FVC68D) / IDEMITSU	POE (RB68A) / Sun Oil or Jx Nippon, PVE (FVC68D) / IDEMITSU	
	Oil Charge		cc	360	360	
	O.L.P. Name		-	-	-	
	Manufacturer / Country of Origin		-	LG Electronics / China	LG Electronics / China	
Fan(Indoor)	Type		-	Cross Flow Fan	Cross Flow Fan	
	Motor Output		W	58	58	
Fan(Outdoor)	Type		-	Propeller Fan	Propeller Fan	
	Motor Type		-	BLDC	BLDC	
	Motor Output		W	85	85	
	Motor Insulation		-	Class E	Class E	
	Motor Enclosure / Ingress Protection		-	TEAO / IPX4	TEAO / IPX4	
Heat Exchanger	Evaporator	Material, Tube / Fin	-	Cu / Al	Cu / Al	
		(Ø x Row x Column x FPI x L) x Qty.	#1	(ø7 x 2 x 16 x 20 x 744) x 1	(ø7 x 2 x 16 x 20 x 744) x 1	
		Corrosion Protection	-	PCM	PCM	
		Fin Type		Slit	Slit	
	Condenser	Material, Tube / Fin	-	Cu / Al	Cu / Al	
		(Ø x Row x Column x FPI x L) x Qty.	#1	(Ø 7 x 2 x 28 x 18 x 938) x 1	(Ø 7 x 2 x 28 x 18 x 938) x 1	
		Corrosion Protection	-	Gold	Gold	
	Fin Type			Corrugate	Corrugate	

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• a) HSPF Region V = HSPF Region IV / 1.15

- HSPF IV values comply with US standard.

- HSPF V values comply with Canada standard.

• b) * : With wind baffle installed, the minimum temperature will be 0°F D.B. in cooling.

Buyer Model	Set (Indoor / Outdoor)		Unit	LA-150HYV3 (LAN150HYV3 / LAU150HYV3)			LA-180HYV3 (LAN180HYV3 / LAU180HYV3)		
Factory Model				S4-W15L41FA (S4NW15L41FA / S4UW15L41FA)			S4-W18L41FA (S4NW18L41FA / S4UW18L41FA)		
Capacity	Cooling	Min ~ Rated ~ Max	kW	0.90	4.40	6.15	0.90	5.28	8.65
			Btu/h	3,070	15,000	21,000	3,070	18,000	29,515
	Heating	Min ~ Rated ~ Max	kW	0.90	5.28	7.39	0.90	6.33	9.38
			Btu/h	3,070	18,000	25,200	3,070	21,600	32,000
Power Input	Cooling	Min ~ Rated ~ Max	W	400	1,000	1,730	400	1,250	2,430
	Heating	Min ~ Rated ~ Max	W	550	1,125	1,990	660	1,543	2,710
Running Current	Cooling	Min ~ Rated ~ Max	A	1.30	7.00	7.56	1.30	6.00	10.62
	Heating	Min ~ Rated ~ Max	A	2.50	8.00	8.28	2.50	7.00	10.36
EER			W/W	4.40			4.22		
			(Btu/h)/W	15.00			14.40		
SEER			-	25.0			24.0		
COP			W/W	4.69			4.10		
			(Btu/h)/W	16.00			14.00		
HSPF		IV / V ¹	-	13.5 / 11.7			13.0 / 11.3		
Energy Star			-	Yes			Yes		
Tax Credit			-	Yes			Yes		
Most Efficient			-	Yes			Yes		
Power Supply			Ø, V, Hz	1, 208/230, 60			1, 208/230, 60		
Available Voltage Range		Min ~ Max	V	187 ~ 253			187 ~ 253		
Power Factor		Cooling / Heating	%	98			98		
Moisture Removal			pts/h (l/h)	3.8 (1.8)			4.65 (2.2)		
Indoor	Air Flow Rate	Cooling, Max / H / M / L	m³/min	23 / 17 / 14 / 11			23 / 17 / 14 / 11		
			CFM	813 / 601 / 495 / 389			813 / 601 / 495 / 389		
		Heating, Max / H / M / L	m³/min	26 / 20 / 17 / 14			26 / 20 / 17 / 14		
			CFM	919 / 707 / 601 / 495			919 / 707 / 601 / 495		
	Sound Pressure Level	Cooling, Max / H / M / L / SL	dB(A)	- / 49 / 44 / 40 / 30			- / 49 / 44 / 40 / 30		
		Heating, Max / H / M / L	dB(A)	- / 49 / 44 / 40			- / 49 / 44 / 40		
	Dimensions (W × H × D)	Net	mm	1060 × 360 × 265			1060 × 360 × 265		
			in.	41-23/32 × 14-3/16 × 10-7/16			41-23/32 × 14-3/16 × 10-7/16		
		Shipping	mm	1140 × 455 × 360			1140 × 455 × 360		
			in.	44-7/8 × 17-29/32 × 14-3/16			44-7/8 × 17-29/32 × 14-3/16		
	Weight	Net	lb. (kg)	37.7 (17.1)			37.7 (17.1)		
		Shipping	lb. (kg)	45.6 (20.7)			45.6 (20.7)		
	Disconnect Switch		A	30			30		
	Exterior Color Code		-	Munsell 7.5BG 10/2 (RAL 9016)			Munsell 7.5BG 10/2 (RAL 9016)		
	Operation Range	Maximum Relative Humidity	%	78			78		
Outdoor	Air Flow Rate	Max	m³/min	60.0			60.0		
			CFM	2119			2119		
	Sound Pressure Level	Cooling, Rated	dB(A)+1	51			53		
		Heating, Rated	dB(A)+1	56			56		
	Dimensions (W × H × D)	Net	mm	950 × 832 × 330			950 × 832 × 330		
			in.	37-13/32 × 32-3/4 × 13			37-13/32 × 32-3/4 × 13		
		Shipping	mm	1140 × 918 × 461			1140 × 918 × 461		
			in.	44-7/8 × 36-5/32 × 18-5/32			44-7/8 × 36-5/32 × 18-5/32		
	Weight	Net	lb. (kg)	135.4 (61.4)			135.4 (61.4)		
		Shipping	lb. (kg)	147.7 (67.0)			147.7 (67.0)		
	Max. Fuse Size		A	30			30		
	Exterior Color Code		-	Munsell 9.54Y 8.34/1.31 (RAL 9001)			Munsell 9.54Y 8.34/1.31 (RAL 9001)		
	Operation Range	Cooling	°F(°C)	14 ~ 118 (-10 ~ 48)			14 ~ 118 (-10 ~ 48)		
		Heating	°F(°C)	-13 ~ 65 (-25 ~ 18.3)			-13 ~ 65 (-25 ~ 18.3)		

Note :

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- Filters are optional in some specific areas.
- For Circuit Breaker Rating, please conform to local standards whenever necessary.
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- a) HSPF Region V = HSPF Region IV / 1.15
 - HSPF IV values comply with US standard.
 - HSPF V values comply with Canada standard.
- b) * : With wind baffle installed, the minimum temperature will be 0°F D.B. in cooling.

Buyer Model		Set (Indoor / Outdoor)		Unit	LA-150HYV3 (LAN150HYV3 / LAU150HYV3)	LA-180HYV3 (LAN180HYV3 / LAU180HYV3)
Factory Model					S4-W15L41FA (S4NW15L41FA / S4UW15L41FA)	S4-W18L41FA (S4NW18L41FA / S4UW18L41FA)
Minimum Circuit Ampacity				A	19.0	19.0
Recommended Fuse Size				A	30	30
Power Supply Cable				No. x AWG (mm²)	3 x 12 (2.5)	3 x 12 (2.5)
Power Supply to Unit				-	Outdoor	Outdoor
Power and Transmission Cable				No. x AWG (mm²)	4 x 16 (1)	4 x 16 (1)
Piping	Size	Liquid	in. (mm)	ø 3/8 (ø 9.52)	ø 3/8 (ø 9.52)	
		Gas	in. (mm)	ø 5/8 (ø 15.88)	ø 5/8 (ø 15.88)	
	Connections Method	Indoor / Outdoor	-	Flared / Flared	Flared / Flared	
Drain Hose Size		O.D, I.D	in. (mm)	25/32, 19/32 (20.0, 15.0)	25/32, 19/32 (20.0, 15.0)	
Between Indoor & Outdoor	Piping Length	Min / Standard / Max	ft. (m)	9.8 / 24.6 / 164.0(3 / 7.5 / 50)	9.8 / 24.6 / 164.0(3 / 7.5 / 50)	
		No Charge	ft. (m)	24.6 (7.5)	24.6 (7.5)	
	Max. Elevation Difference		ft. (m)	98.4 (30)	98.4 (30)	
	Piping Connection Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	
Refrigerant		Type	-	R410A	R410A	
		Pre Charge	oz. (g)	77.6 (2200)	77.6 (2200)	
		Additional Charge	oz./ft. (g/m)	0.38 (35)	0.38 (35)	
		Control	-	Electronic Expansion Valve	Electronic Expansion Valve	
Defrost Method		-	-	Reverse Cycle	Reverse Cycle	
Tool Code (Chassis)		Indoor / Outdoor	-	SL / U4	SL / U4	
Compressor	Type	-		Twin Rotary	Twin Rotary	
	Model	-		GJT240MAB	GJT240MAB	
	Motor Type	-		BLDC	BLDC	
	Oil Type / Maker	-		PVE (FVC68D) / IDEMITSU	PVE (FVC68D) / IDEMITSU	
	Oil Charge	cc	900	900		
	O.L.P. Name	-	-	-		
	Manufacturer / Country of Origin	-	LG Electronics / Korea	LG Electronics / Korea		
Fan(Indoor)	Type	-		Cross Flow Fan	Cross Flow Fan	
	Motor Output	W		58	58	
Fan(Outdoor)	Type	-		Propeller Fan	Propeller Fan	
	Motor Type	-		BLDC	BLDC	
	Motor Output	W		124	124	
	Motor Insulation	-		Class E	Class E	
	Motor Enclosure / Ingress Protection	-		TEAO / IPX4	TEAO / IPX4	
Heat Exchanger	Evaporator	Material, Tube / Fin	-	Cu / Al	Cu / Al	
		(Ø x Row x Column x FPI x L) x Qty.	#1	(ø7 x 3 x 18 x 21 x 781) x 1	(ø7 x 3 x 18 x 21 x 781) x 1	
		Corrosion Protection	-	PCM	PCM	
		Fin Type	-	Slit	Slit	
	Condenser	Material, Tube / Fin	-	Cu / Al	Cu / Al	
		(Ø x Row x Column x FPI x L) x Qty.	#1	(ø7 x 2 x 38 x 17 x 950) x 1	(ø7 x 2 x 38 x 17 x 950) x 1	
		Corrosion Protection	-	Gold	Gold	
Fin Type		-	Corrugate	Corrugate		

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- HSPF IV values comply with US standard.

- HSPF V values comply with Canada standard.

• b) * : With wind baffle installed, the minimum temperature will be 0°F D.B. in cooling.

Buyer Model	Set (Indoor / Outdoor)		Unit	LA-240HYV3 (LAN240HYV3 / LAU240HYV3)			LS-243HLV3 (LSN243HLV3 / LSU243HLV3)		
Factory Model				S4-W24L41FA (S4NW24L41FA / S4UW24L41FA)			S4-W24L43FA (S4NW24L43FA / S4UW24L43FA)		
Capacity	Cooling	Min ~ Rated ~ Max	kW	0.90	6.45	8.79	0.90	6.45	8.79
			Btu/h	3,070	22,000	30,000	3,070	22,000	30,000
	Heating	Min ~ Rated ~ Max	kW	0.90	7.62	10.61	0.90	7.62	10.61
			Btu/h	3,070	26,000	36,200	3,070	26,000	36,200
Power Input	Cooling	Min ~ Rated ~ Max	W	400	1,692	3,170	400	1,692	3,170
	Heating	Min ~ Rated ~ Max	W	660	2,080	3,240	660	2,080	3,240
Running Current	Cooling	Min ~ Rated ~ Max	A	1.44	8.00	13.99	1.44	8.00	13.99
	Heating	Min ~ Rated ~ Max	A	2.80	10.00	13.40	2.80	10.00	13.40
EER			W/W	3.81			3.81		
			(Btu/h)/W	13.00			13.00		
SEER			-	22.5			21.5		
COP			W/W	3.66			3.66		
			(Btu/h)/W	12.50			12.50		
HSPF		IV / V ¹	-	12.5 / 10.9			12.0 / 10.4		
Energy Star			-	Yes			Yes		
Tax Credit			-	Yes			Yes		
Most Efficient			-	Yes			Yes		
Power Supply			Ø, V, Hz	1, 208/230, 60			1, 208/230, 60		
Available Voltage Range		Min ~ Max	V	187 ~ 253			187 ~ 253		
Power Factor		Cooling / Heating	%	98			98		
Moisture Removal			pts/h (l/h)	4.65 (2.2)			4.65 (2.2)		
Indoor	Air Flow Rate	Cooling, Max / H / M / L	m³/min	23 / 17 / 14 / 11			23 / 17 / 14 / 11		
			CFM	813 / 601 / 495 / 389			813 / 601 / 495 / 389		
		Heating, Max / H / M / L	m³/min	26 / 20 / 17 / 14			26 / 20 / 17 / 14		
			CFM	919 / 707 / 601 / 495			919 / 707 / 601 / 495		
	Sound Pressure Level	Cooling, Max / H / M / L / SL	dB(A)	- / 49 / 44 / 40 / 30			- / 49 / 44 / 40 / 30		
		Heating, Max / H / M / L	dB(A)	- / 49 / 44 / 40			- / 49 / 44 / 40		
	Dimensions (W × H × D)	Net	mm	1060 × 360 × 265			1060 × 360 × 265		
			in.	41-23/32 × 14-3/16 × 10-7/16			41-23/32 × 14-3/16 × 10-7/16		
		Shipping	mm	1140 × 455 × 360			1140 × 455 × 360		
			in.	44-7/8 × 17-29/32 × 14-3/16			44-7/8 × 17-29/32 × 14-3/16		
	Weight	Net	lb. (kg)	37.7 (17.1)			36.6 (16.6)		
		Shipping	lb. (kg)	45.6 (20.7)			44.5 (20.2)		
	Disconnect Switch		A	30			30		
	Exterior Color Code		-	Munsell 7.5BG 10/2 (RAL 9016)			Munsell 7.5BG 10/2 (RAL 9016)		
	Operation Range	Maximum Relative Humidity	%	78			78		
Outdoor	Air Flow Rate	Max	m³/min	60.0			60.0		
			CFM	2119			2119		
	Sound Pressure Level	Cooling, Rated	dB(A)+1	55			55		
		Heating, Rated	dB(A)+1	56			56		
	Dimensions (W × H × D)	Net	mm	950 × 832 × 330			950 × 832 × 330		
			in.	37-13/32 × 32-3/4 × 13			37-13/32 × 32-3/4 × 13		
		Shipping	mm	1140 × 918 × 461			1140 × 918 × 461		
			in.	44-7/8 × 36-5/32 × 18-5/32			44-7/8 × 36-5/32 × 18-5/32		
	Weight	Net	lb. (kg)	135.4 (61.4)			135.4 (61.4)		
		Shipping	lb. (kg)	147.7 (67.0)			147.7 (67.0)		
	Max. Fuse Size		A	30			30		
	Exterior Color Code		-	Munsell 9.54Y 8.34/1.31 (RAL 9001)			Munsell 9.54Y 8.34/1.31 (RAL 9001)		
	Operation Range	Cooling	°F(°C)	14 ~ 118 (-10 ~ 48)			14 ~ 118 (-10 ~ 48)		
		Heating	°F(°C)	-13 ~ 65 (-25 ~ 18.3)			-4 ~ 65 (-20 ~ 18.3)		

Note :

- O : Applied, X : No relation, -- : No relation
- Filters are optional in some specific areas.
- For Circuit Breaker Rating, please conform to local standards whenever necessary.
- If you use Wi-Fi, Wi-Fi module must be purchased separately.

- a) HSPF Region V = HSPF Region IV / 1.15
 - HSPF IV values comply with US standard.
 - HSPF V values comply with Canada standard.
- b) * : With wind baffle installed, the minimum temperature will be 0°F D.B. in cooling.

Buyer Model		Set (Indoor / Outdoor)		Unit	LA-240HYV3 (LAN240HYV3 / LAU240HYV3)	LS-243HLV3 (LSN243HLV3 / LSU243HLV3)
Factory Model					S4-W24L41FA (S4NW24L41FA / S4UW24L41FA)	S4-W24L43FA (S4NW24L43FA / S4UW24L43FA)
Minimum Circuit Ampacity				A	19.0	19.0
Recommended Fuse Size				A	30	30
Power Supply Cable				No. x AWG (mm²)	3 x 12 (2.5)	3 x 12 (2.5)
Power Supply to Unit				-	Outdoor	Outdoor
Power and Transmission Cable				No. x AWG (mm²)	4 x 16 (1)	4 x 16 (1)
Piping	Size	Liquid	in. (mm)	ø 3/8 (ø 9.52)	ø 3/8 (ø 9.52)	
		Gas	in. (mm)	ø 5/8 (ø 15.88)	ø 5/8 (ø 15.88)	
	Connections Method	Indoor / Outdoor	-	Flared / Flared	Flared / Flared	
Drain Hose Size		O.D, I.D	in. (mm)	25/32, 19/32 (20.0, 15.0)	25/32, 19/32 (20.0, 15.0)	
Between Indoor & Outdoor	Piping Length	Min / Standard / Max	ft. (m)	9.8 / 24.6 / 164.0(3 / 7.5 / 50)	9.8 / 24.6 / 164.0(3 / 7.5 / 50)	
		No Charge	ft. (m)	24.6 (7.5)	24.6 (7.5)	
	Max. Elevation Difference		ft. (m)	98.4 (30)	98.4 (30)	
	Piping Connection Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	
Refrigerant	Type		-	R410A	R410A	
	Pre Charge		oz. (g)	77.6 (2200)	77.6 (2200)	
	Additional Charge		oz./ft. (g/m)	0.38 (35)	0.38 (35)	
	Control		-	Electronic Expansion Valve	Electronic Expansion Valve	
Defrost Method			-	Reverse Cycle	Reverse Cycle	
Tool Code (Chassis)		Indoor / Outdoor	-	SL / U4	SL / U4	
Compressor	Type		-	Twin Rotary	Twin Rotary	
	Model		-	GJT240MAB	GJT240MAB	
	Motor Type		-	BLDC	BLDC	
	Oil Type / Maker		-	PVE (FVC68D) / IDEMITSU	PVE (FVC68D) / IDEMITSU	
	Oil Charge		cc	900	900	
	O.L.P. Name		-	-	-	
	Manufacturer / Country of Origin		-	LG Electronics / Korea	LG Electronics / Korea	
Fan(Indoor)	Type		-	Cross Flow Fan	Cross Flow Fan	
	Motor Output		W	58	58	
Fan(Outdoor)	Type		-	Propeller Fan	Propeller Fan	
	Motor Type		-	BLDC	BLDC	
	Motor Output		W	124	124	
	Motor Insulation		-	Class E	Class E	
	Motor Enclosure / Ingress Protection		-	TEAO / IPX4	TEAO / IPX4	
Heat Exchanger	Evaporator	Material, Tube / Fin	-	Cu / Al	Cu / Al	
		(Ø x Row x Column x FPI x L) x Qty.	#1	(ø7 x 3 x 18 x 21 x 781) x 1	(ø7 x 3 x 18 x 21 x 781) x 1	
		Corrosion Protection	-	PCM	PCM	
		Fin Type	-	Slit	Slit	
	Condenser	Material, Tube / Fin	-	Cu / Al	Cu / Al	
		(Ø x Row x Column x FPI x L) x Qty.	#1	(ø7 x 2 x 38 x 17 x 950) x 1	(ø7 x 2 x 38 x 17 x 950) x 1	
		Corrosion Protection	-	Gold	Gold	
Fin Type		-	Corrugate	Corrugate		

Note :

O : Applied, X : No relation, - : No relation

• Filters are optional in some specific areas.

• For Circuit Breaker Rating, please conform to local standards whenever necessary.

• If you use Wi-Fi, Wi-Fi module must be purchased separately.

• a) HSPF Region V = HSPF Region IV / 1.15

- HSPF IV values comply with US standard.

- HSPF V values comply with Canada standard.

• b) * : With wind baffle installed, the minimum temperature will be 0°F D.B. in cooling.

Buyer Model	Set (Indoor / Outdoor)		Unit	LS-303HLV3 (LSN303HLV3 / LSU303HLV3)			LS-363HLV3 (LSN363HLV3 / LSU363HLV3)		
Factory Model				S4-W30R43FA (S4NW30R43FA / S4UW30R43FA)			S4-W36R43FA (S4NW36R43FA / S4UW36R43FA)		
Capacity	Cooling	Min ~ Rated ~ Max	kW	0.90	8.79	9.96	0.90	9.67	9.96
			Btu/h	3,070	30,000	34,000	3,070	33,000	34,000
	Heating	Min ~ Rated ~ Max	kW	0.90	9.53	11.40	0.90	10.32	11.40
			Btu/h	3,070	32,400	38,900	3,070	35,200	38,900
Power Input	Cooling	Min ~ Rated ~ Max	W	500	2,655	3,600	500	3,300	4,020
	Heating	Min ~ Rated ~ Max	W	660	2,754	4,370	660	3,115	4,370
Running Current	Cooling	Min ~ Rated ~ Max	A	1.44	12.00	18.09	1.44	15.00	20.40
	Heating	Min ~ Rated ~ Max	A	2.80	13.00	16.60	2.80	14.00	19.50
EER			W/W	3.31			2.93		
			(Btu/h)/W	11.30			10.00		
SEER			-	20.0			18.5		
COP			W/W	3.45			3.31		
			(Btu/h)/W	11.76			11.30		
HSPF		IV / V ¹	-	11.5 / 10.0			11.0 / 9.6		
Energy Star			-	No			No		
Tax Credit			-	No			No		
Most Efficient			-	No			No		
Power Supply			Ø, V, Hz	1, 208/230, 60			1, 208/230, 60		
Available Voltage Range		Min ~ Max	V	187 ~ 253			187 ~ 253		
Power Factor		Cooling / Heating	%	98			98		
Moisture Removal			pts/h (l/h)	5.49 (2.6)			5.49 (2.6)		
Indoor	Air Flow Rate	Cooling, Max / H / M / L	m³/min	31 / 25 / 21 / 17			31 / 25 / 21 / 17		
			CFM	1095 / 883 / 742 / 601			1095 / 883 / 742 / 601		
		Heating, Max / H / M / L	m³/min	33 / 27 / 23 / 19			33 / 27 / 23 / 19		
			CFM	1166 / 954 / 813 / 671			1166 / 954 / 813 / 671		
	Sound Pressure Level	Cooling, Max / H / M / L / SL	dB(A)	- / 51 / 47 / 43 / 33			- / 51 / 47 / 43 / 33		
		Heating, Max / H / M / L	dB(A)	- / 51 / 47 / 43			- / 51 / 47 / 43		
	Dimensions (W × H × D)	Net	mm	1200 × 360 × 265			1200 × 360 × 265		
			in.	47-1/4 × 14-3/16 × 10-7/16			47-1/4 × 14-3/16 × 10-7/16		
		Shipping	mm	1280 × 455 × 360			1280 × 455 × 360		
			in.	50-13/32 × 17-29/32 × 14-3/16			50-13/32 × 17-29/32 × 14-3/16		
	Weight	Net	lb. (kg)	40.8 (18.5)			40.8 (18.5)		
		Shipping	lb. (kg)	48.9 (22.2)			48.9 (22.2)		
	Disconnect Switch		A	30			30		
	Exterior Color Code		-	Munsell 7.5BG 10/2 (RAL 9016)			Munsell 7.5BG 10/2 (RAL 9016)		
	Operation Range	Maximum Relative Humidity	%	78			78		
Outdoor	Air Flow Rate	Max	m³/min	65.0			65.0		
			CFM	2295			2295		
	Sound Pressure Level	Cooling, Rated	dB(A)+1	55			55		
		Heating, Rated	dB(A)+1	58			58		
	Dimensions (W × H × D)	Net	mm	950 × 832 × 330			950 × 832 × 330		
			in.	37-13/32 × 32-3/4 × 13			37-13/32 × 32-3/4 × 13		
		Shipping	mm	1140 × 918 × 461			1140 × 918 × 461		
			in.	44-7/8 × 36-5/32 × 18-5/32			44-7/8 × 36-5/32 × 18-5/32		
	Weight	Net	lb. (kg)	147.9 (67.1)			147.9 (67.1)		
		Shipping	lb. (kg)	160.3 (72.7)			160.3 (72.7)		
	Max. Fuse Size		A	30			30		
	Exterior Color Code		-	Munsell 9.54Y 8.34/1.31 (RAL 9001)			Munsell 9.54Y 8.34/1.31 (RAL 9001)		
	Operation Range	Cooling	°F(°C)	14 ~ 118 (-10 ~ 48)			14 ~ 118 (-10 ~ 48)		
		Heating	°F(°C)	-4 ~ 65 (-20 ~ 18.3)			-4 ~ 65 (-20 ~ 18.3)		

Note :

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- Filters are optional in some specific areas.
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- If you use Wi-Fi, Wi-Fi module must be purchased separately.

- a) HSPF Region V = HSPF Region IV / 1.15
 - HSPF IV values comply with US standard.
 - HSPF V values comply with Canada standard.
- b) * : With wind baffle installed, the minimum temperature will be 0°F D.B. in cooling.

Buyer Model	Set (Indoor / Outdoor)		Unit	LS-303HLV3 (LSN303HLV3 / LSU303HLV3)	LS-363HLV3 (LSN36HLV3 / LSU36HLV3)
Factory Model				S4-W30R43FA (S4NW30R43FA / S4UW30R43FA)	S4-W36R43FA (S4NW36R43FA / S4UW36R43FA)
Minimum Circuit Ampacity			A	23.0	23.0
Recommended Fuse Size			A	30	30
Power Supply Cable			No. x AWG (mm²)	3 x 12 (2.5)	3 x 12 (2.5)
Power Supply to Unit			-	Outdoor	Outdoor
Power and Transmission Cable			No. x AWG (mm²)	4 x 16 (1)	4 x 16 (1)
Piping	Size	Liquid	in. (mm)	ø 3/8 (ø 9.52)	ø 3/8 (ø 9.52)
		Gas	in. (mm)	ø 5/8 (ø 15.88)	ø 5/8 (ø 15.88)
	Connections Method	Indoor / Outdoor	-	Flared / Flared	Flared / Flared
Drain Hose Size		O.D, I.D	in. (mm)	25/32, 19/32 (20.0, 15.0)	25/32, 19/32 (20.0, 15.0)
Between Indoor & Outdoor	Piping Length	Min / Standard / Max	ft. (m)	9.8 / 24.6 / 164.0(3 / 7.5 / 50)	9.8 / 24.6 / 164.0(3 / 7.5 / 50)
		No Charge	ft. (m)	24.6 (7.5)	24.6 (7.5)
	Max. Elevation Difference		ft. (m)	98.4 (30)	98.4 (30)
	Piping Connection Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
Refrigerant		Type	-	R410A	R410A
		Pre Charge	oz. (g)	84.7 (2400)	84.7 (2400)
		Additional Charge	oz./ft. (g/m)	0.38 (35)	0.38 (35)
		Control	-	Electronic Expansion Valve	Electronic Expansion Valve
Defrost Method		-	Reverse Cycle	Reverse Cycle	
Tool Code (Chassis)		Indoor / Outdoor	-	SR / U4	SR / U4
Compressor	Type		-	Twin Rotary	Twin Rotary
	Model		-	GPT330MAB	GPT330MAB
	Motor Type		-	BLDC	BLDC
	Oil Type / Maker		-	PVE (FVC68D) / IDEMITSU	PVE (FVC68D) / IDEMITSU
	Oil Charge		cc	1300	1300
	O.L.P. Name		-	-	-
	Manufacturer / Country of Origin		-	LG Electronics / Korea	LG Electronics / Korea
Fan(Indoor)	Type		-	Cross Flow Fan	Cross Flow Fan
	Motor Output		W	110	110
Fan(Outdoor)	Type		-	Propeller Fan	Propeller Fan
	Motor Type		-	BLDC	BLDC
	Motor Output		W	124	124
	Motor Insulation		-	Class E	Class E
	Motor Enclosure / Ingress Protection		-	TEAO / IPX4	TEAO / IPX4
Heat Exchanger	Evaporator	Material, Tube / Fin	-	Cu / Al	Cu / Al
		(Ø x Row x Column x FPI x L) x Qty.	#1	(ø7 x 3 x 18 x 21 x 913) x 1	(ø7 x 3 x 18 x 21 x 913) x 1
		Corrosion Protection	-	PCM	PCM
		Fin Type	-	Slit	Slit
	Condenser	Material, Tube / Fin	-	Cu / Al	Cu / Al
		(Ø x Row x Column x FPI x L) x Qty.	#1	(ø7 x 2 x 38 x 17 x 950) x 1	(ø7 x 2 x 38 x 17 x 950) x 1
		Corrosion Protection	-	Gold	Gold
Fin Type		-	Corrugate	Corrugate	

Note :

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- Filters are optional in some specific areas.
- For Circuit Breaker Rating, please conform to local standards whenever necessary.
- If you use Wi-Fi, Wi-Fi module must be purchased separately.

- a) HSPF Region V = HSPF Region IV / 1.15
 - HSPF IV values comply with US standard.
 - HSPF V values comply with Canada standard.
- b) * : With wind baffle installed, the minimum temperature will be 0°F D.B. in cooling.

2. Function

Category	Function	LA-090HYV3	LA-120HYV3	LA-150HYV3
		S4-W09K21FA	S4-W12K21FA	S4-W15L41FA
Air Flow	Air Supply Outlet	1	1	1
	Airflow Direction Control (Left & Right)	5 Steps	5 Steps	5 Steps
	Airflow Direction Control (Up & Down)	6 Steps	6 Steps	6 Steps
	Auto Swing (Left & Right)	O	O	O
	Auto Swing (Up & Down)	O	O	O
	Fan Speed Steps (Fan / Cool / Heat)	6 / 6 / 6	6 / 6 / 6	6 / 6 / 6
	Natural Wind (Auto Wind)	O	O	O
	Jet Cool / Jet Heat (Power Wind)	O / O	O / O	O / O
Air Purifying	Comfort Air	O	O	O
	Prefilter (Washable / Anti-Bacteria)	O	O	O
	Deodorizing Filter	X	X	X
	Allergie Filter	X	X	X
	Micro Dust Filter	X	X	X
Installation	Multi Protection Filter	X	X	X
	Plasma Air Purifier (Ionizer)	X	X	X
Reliability	Drain Pump	X	X	X
	Hot Start	O	O	O
	Self Diagnosis	O	O	O
	De-ice Control (Defrost)	O	O	O
	Dry (Dehumidification) Operation	O	O	O
Convenience	Auto Changeover	O	O	O
	Auto Operation (Artificial Intelligence)	X	X	X
	Auto Cleaning (Coil Dry)	O	O	O
	Auto Restart Operation	O	O	O
	Child Lock ¹	O	O	O
	Forced Operation	O	O	O
	Group Control ¹	X	X	X
	Sleep Mode	7hr	7hr	7hr
	Timer 24hr (On/Off) / 7hr (Off)	O / X	O / X	O / X
	Timer (Weekly) ¹	O	O	O
	Two Thermistor Control ¹	X	X	X
	Low Ambient Operation	O	O	O
	Overheating Protection	O	O	O
	Low Heating	O	O	O
	Voice Control	X	X	X
	Smart Scan (PIR)	X	X	X
	LG AC Tag On (NFC)	X	X	X
	Outdoor Silent Mode	X	X	X
	Mosquito Away	X	X	X
	Smart Diagnosis	O	O	O
Energy Saving	Indoor Unit Display Type	Number Display	Number Display	Number Display
	Indoor Unit Display Light	On/Off	On/Off	On/Off
	Energy Display	X	X	X
	Energy Saving	O	O	O
	Energy Control	X	X	X
Individual Control	Gen Mode	X	X	X
	Wired Remote Controller (Premium) ²	PREMTA000(A/B)	PREMTA000(A/B)	PREMTA000(A/B)
	Wired Remote Controller (Standard) ²	PREMTB10U	PREMTB10U	PREMTB10U
	Wired Remote Controller (Simple with Mode Selection) ²	PQRCVCL0Q(W)	PQRCVCL0Q(W)	PQRCVCL0Q(W)
	Wired Remote Controller (Simple without Mode Selection) ²	PQRCHCA0Q(W)	PQRCHCA0Q(W)	PQRCHCA0Q(W)
CAC Network Function	Handheld Wireless Controller (See Remote Controller Section)	AKB74955602	AKB74955602	AKB74955602
	Setting Temperature Range (Cooling)	18~30 °C (64~86 °F)	18~30 °C (64~86 °F)	18~30 °C (64~86 °F)
	Setting Temperature Range (Heating)	16~30 °C (60~86 °F)	16~30 °C (60~86 °F)	16~30 °C (60~86 °F)
Special Function Kit	General Central Controller (Non LGAP)	X	X	X
	Network Solution (LGAP)	O	O	O
	Dry Contact ²	PQDSB1, PQDSBC, PQDSBC1, PQDSBNGCM1		
	PDI (Power Distribution Indicator) ²	X	X	X
	Outdoor Unit PI 485 ²	PMNFP14A1	PMNFP14A1	PMNFP14A1
Others	Wi-Fi ²	Embedded	Embedded	Embedded
	Water Level Sensor Connection ²	O	O	O
	Wind Baffle Kit ²	ZLABGP03A	ZLABGP03A	ZLABGP03A
	Sump Heater	O	O	O
	Sheath Heater ²	X	X	X
	Crank Case Heater	O	O	O
	Smart Inverter Monitoring System (SIMs) ²	PSWMOZ3	PSWMOZ3	PSWMOZ3
Others	Mode Lock	Cooling Only or Heating Only	Cooling Only or Heating Only	Cooling Only or Heating Only
	Temperature Control	Thermistor	Thermistor	Thermistor
Others	DRED (Demand Response Enabling Device)	X	X	X

Note :

O : Applied, X : Not Applied

• Filters are optional in some specific areas.

• ¹ : This function can be operated only when the wired remote controller is connected. The applicability of each function depends on the above table.

• ² : Optional accessories must be purchased separately. If shown as "Embedded", this function is included in product.

• The function Wi-Fi is only compatible with 2.4 GHz band. (802.11 b/g/n)

• Some specifications may be changed without notifications due to our policy of innovation.

Category	Function	LA-180HYV3	LA-240HYV3	LS-243HLV3
		S4-W18L41FA	S4-W24L41FA	S4-W24R43FA
Air Flow	Air Supply Outlet	1	1	1
	Airflow Direction Control (Left & Right)	5 Steps	5 Steps	5 Steps
	Airflow Direction Control (Up & Down)	6 Steps	6 Steps	6 Steps
	Auto Swing (Left & Right)	O	O	O
	Auto Swing (Up & Down)	O	O	O
	Fan Speed Steps (Fan / Cool / Heat)	6 / 6 / 6	6 / 6 / 6	6 / 6 / 6
	Natural Wind (Auto Wind)	O	O	O
Air Purifying	Jet Cool / Jet Heat (Power Wind)	O / O	O / O	O / O
	Comfort Air	O	O	O
	Prefilter (Washable / Anti-Bacteria)	O	O	O
	Deodorizing Filter	X	X	X
	Allergie Filter	X	X	X
	Micro Dust Filter	X	X	X
Installation	Multi Protection Filter	X	X	X
	Plasma Air Purifier (Ionizer)	X	X	X
Reliability	Drain Pump	X	X	X
	Hot Start	O	O	O
	Self Diagnosis	O	O	O
	De-ice Control (Defrost)	O	O	O
Convenience	Dry (Dehumidification) Operation	O	O	O
	Auto Changeover	O	O	O
	Auto Operation (Artificial Intelligence)	X	X	X
	Auto Cleaning (Coil Dry)	O	O	O
	Auto Restart Operation	O	O	O
	Child Lock ¹	O	O	O
	Forced Operation	O	O	O
	Group Control ¹	X	X	X
	Sleep Mode	7hr	7hr	7hr
	Timer 24hr (On/Off) / 7hr (Off)	O / X	O / X	O / X
	Timer (Weekly) ¹	O	O	O
	Two Thermistor Control ¹	X	X	X
	Low Ambient Operation	O	O	O
	Overheating Protection	O	O	O
	Low Heating	O	O	O
	Voice Control	X	X	X
	Smart Scan (PIR)	X	X	X
	LG AC Tag On (NFC)	X	X	X
	Outdoor Silent Mode	X	X	X
	Mosquito Away	X	X	X
	Smart Diagnosis	O	O	O
	Indoor Unit Display Type	Number Display	Number Display	Number Display
	Indoor Unit Display Light	On/Off	On/Off	On/Off
	Energy Display	X	X	X
Energy Saving	Energy Saving	O	O	O
	Energy Control	X	X	X
	Gen Mode	X	X	X
Individual Control	Wired Remote Controller (Premium) ²	PREMTA000(A/B)	PREMTA000(A/B)	PREMTA000(A/B)
	Wired Remote Controller (Standard) ²	PREMTB10U	PREMTB10U	PREMTB10U
	Wired Remote Controller (Simple with Mode Selection) ²	PQRCVCLQ(W)	PQRCVCLQ(W)	PQRCVCLQ(W)
	Wired Remote Controller (Simple without Mode Selection) ²	PQRCHCA0Q(W)	PQRCHCA0Q(W)	PQRCHCA0Q(W)
	Handheld Wireless Controller	AKB74955602	AKB74955602	AKB74955602
	Setting Temperature Range (Cooling)	18~30 °C (64~86 °F)	18~30 °C (64~86 °F)	18~30 °C (64~86 °F)
CAC Network Function	Setting Temperature Range (Heating)	16~30 °C (60~86 °F)	16~30 °C (60~86 °F)	16~30 °C (60~86 °F)
	General Central Controller (Non LGAP)	X	X	X
	Network Solution (LGAP)	O	O	O
	Dry Contact ²	O	O	O
	PDI (Power Distribution Indicator) ²	PQDSB1, PQDSBC, PQDSBC1, PQDSBNGCM1		
	Outdoor Unit PI 485 ²	PMNFP14A1	PMNFP14A1	PMNFP14A1
Special Function Kit	Wi-Fi ²	Embedded	Embedded	Embedded
	Water Level Sensor Connection ²	O	O	O
	Wind Baffle Kit ²	ZLABGP03A	ZLABGP03A	ZLABGP03A
	Sump Heater	O	O	O
	Sheath Heater ²	X	X	X
	Crank Case Heater	O	O	O
Others	Smart Inverter Monitoring System (SIMs) ²	PSWMOZ3	PSWMOZ3	PSWMOZ3
	Mode Lock	Cooling Only or Heating Only	Cooling Only or Heating Only	Cooling Only or Heating Only
	Temperature Control	Thermistor	Thermistor	Thermistor
	DRED (Demand Response Enabling Device)	X	X	X

Note :

O : Applied, X : Not Applied

• Filters are optional in some specific areas.

• ¹ : This function can be operated only when the wired remote controller is connected. The applicability of each function depends on the above table.

• ² : Optional accessories must be purchased separately. If shown as "Embedded", this function is included in product.

• The function Wi-Fi is only compatible with 2.4 GHz band. (802.11 b/g/n)

• Some specifications may be changed without notifications due to our policy of innovation.

Category	Function	LS-303HLV3	LS-363HLV3
		S4-W30R43FA	S4-W36R43FA
Air Flow	Air Supply Outlet	1	1
	Airflow Direction Control (Left & Right)	5 Steps	5 Steps
	Airflow Direction Control (Up & Down)	6 Steps	6 Steps
	Auto Swing (Left & Right)	○	○
	Auto Swing (Up & Down)	○	○
	Fan Speed Steps (Fan / Cool / Heat)	6 / 6 / 6	6 / 6 / 6
	Natural Wind (Auto Wind)	○	○
Air Purifying	Jet Cool / Jet Heat (Power Wind)	○ / ○	○ / ○
	Comfort Air	○	○
	Prefilter (Washable / Anti-Bacteria)	○	○
	Deodorizing Filter	X	X
	Allergie Filter	X	X
	Micro Dust Filter	X	X
Installation	Multi Protection Filter	X	X
	Plasma Air Purifier (Ionizer)	X	X
Reliability	Drain Pump	X	X
	Hot Start	○	○
	Self Diagnosis	○	○
	De-ice Control (Defrost)	○	○
Convenience	Dry (Dehumidification) Operation	○	○
	Auto Changeover	○	○
	Auto Operation (Artificial Intelligence)	X	X
	Auto Cleaning (Coil Dry)	○	○
	Auto Restart Operation	○	○
	Child Lock ¹	○	○
	Forced Operation	○	○
	Group Control ¹	X	X
	Sleep Mode	7hr	7hr
	Timer 24hr (On/Off) / 7hr (Off)	○ / X	○ / X
	Timer (Weekly) ¹	○	○
	Two Thermistor Control ¹	X	X
	Low Ambient Operation	○	○
	Overheating Protection	○	○
	Low Heating	○	○
	Voice Control	X	X
	Smart Scan (PIR)	X	X
	LG AC Tag On (NFC)	X	X
	Outdoor Silent Mode	X	X
	Mosquito Away	X	X
	Smart Diagnosis	○	○
	Indoor Unit Display Type	Number Display	Number Display
	Indoor Unit Display Light	On/Off	On/Off
	Energy Display	X	X
Energy Saving	Energy Saving	○	○
	Energy Control	X	X
	Gen Mode	X	X
Individual Control	Wired Remote Controller (Premium) ²	PREMTA000(A/B)	PREMTA000(A/B)
	Wired Remote Controller (Standard) ²	PREMTB10U	PREMTB10U
	Wired Remote Controller (Simple with Mode Selection) ²	PQRCVCL0Q(W)	PQRCVCL0Q(W)
	Wired Remote Controller (Simple without Mode Selection) ²	PQRCHCA0Q(W)	PQRCHCA0Q(W)
	Handheld Wireless Controller	AKB74955602	AKB74955602
	Setting Temperature Range (Cooling)	18~30 °C (64~86 °F)	18~30 °C (64~86 °F)
CAC Network Function	Setting Temperature Range (Heating)	16~30 °C (60~86 °F)	16~30 °C (60~86 °F)
	General Central Controller (Non LGAP)	X	X
	Network Solution (LGAP)	○	○
	Dry Contact ²	PQDSB1, PQDSBC, PQDSBC1, PQDSBNGCM1	
	PDI (Power Distribution Indicator) ²	X	X
	Outdoor Unit PI 485 ²	PMNFP14A1	PMNFP14A1
Special Function Kit	Wi-Fi ²	Embedded	Embedded
	Water Level Sensor Connection ²	○	○
	Wind Baffle Kit ²	ZLABGP03A	ZLABGP03A
	Sump Heater	○	○
	Sheath Heater ²	X	X
	Crank Case Heater	○	○
	Smart Inverter Monitoring System (SIMs) ²	PSWMOZ3	PSWMOZ3
Others	Mode Lock	Cooling Only or Heating Only	Cooling Only or Heating Only
	Temperature Control	Thermistor	Thermistor
	DRED (Demand Response Enabling Device)	X	X

Note :

○ : Applied, X : Not Applied

• Filters are optional in some specific areas.

• ¹ : This function can be operated only when the wired remote controller is connected. The applicability of each function depends on the above table.

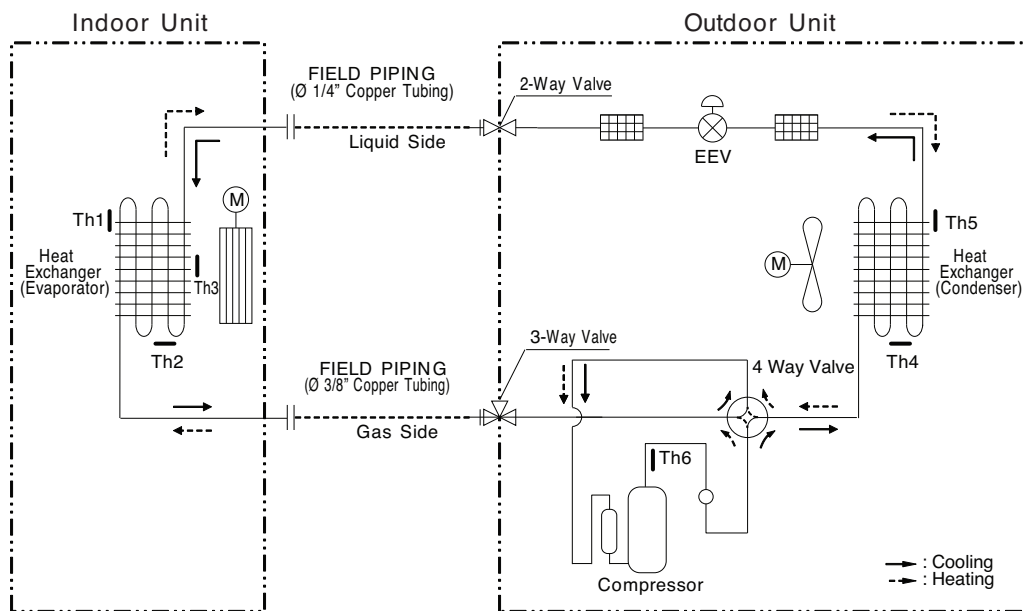
• ² : Optional accessories must be purchased separately. If shown as "Embedded", this function is included in product.

• The function Wi-Fi is only compatible with 2.4 GHz band. (802.11 b/g/n)

• Some specifications may be changed without notifications due to our policy of innovation.

3. Piping Diagrams

LA090HYV3 (S4-W09K21FA), LA120HYV3 (S4-W12K21FA)



Loc.	Description	PCB Connector
Th1	Thermistor for suction air temperature	CN-TH1 (Indoor)
Th2	Water level sensor (Option)	CN-TH2 (Indoor)
Th3	Thermistor for evaporator middle temperature	CN-TH3 (Indoor)
Th4	Thermistor for condensing temperature	CN-TH1 (Outdoor)
Th5	Thermistor for outdoor air temperature	
Th6	Thermistor for discharge pipe temperature	CN-TH2 (Outdoor)

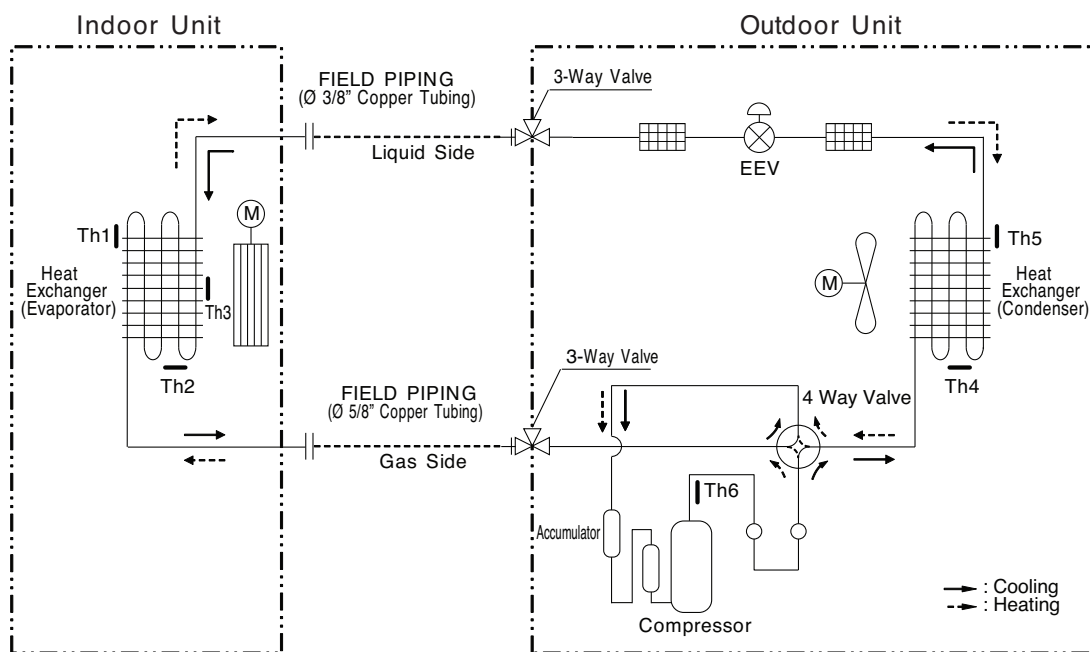
※ EEV : Electronic Expansion Valve

■ Refrigerant Pipe Connection Port Diameters

Model	Gas		Liquid	
	mm	inch	mm	inch
LA090HYV3, LA120HYV3	Ø 9.52	Ø 3/8	Ø 6.35	Ø 1/4

Appendix	Heat Exchanger	Propeller Fan	Cross Flow Fan	Compressor	Accumulator	4 Way Valve
	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve 3-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint	Muffler	Strainer		

**LA150HYV3 (S4-W15L41FA), LA180HYV3 (S4-W18L41FA), LA240HYV3 (S4-W24L41FA)
LS243HLV3 (S4-W24L43FA), LS303HLV3 (S4-W30R43FA), LS363HLV3 (S4-W36R43FA)**



Loc.	Decription	PCB Connector
Th1	Thermistor for suction air temperature	CN-TH1 (Indoor)
Th2	Water level sensor (Option)	CN-TH2 (Indoor)
Th3	Thermistor for evaporator middle temperature	CN-TH3 (Indoor)
Th4	Thermistor for condensing temperature	CN-TH1 (Outdoor)
Th5	Thermistor for outdoor air temperature	
Th6	Thermistor for discharge pipe temperature	CN-TH2 (Outdoor)

※ EEV : Electronic Expansion Valve

■ Refrigerant Pipe Connection Port Diameters

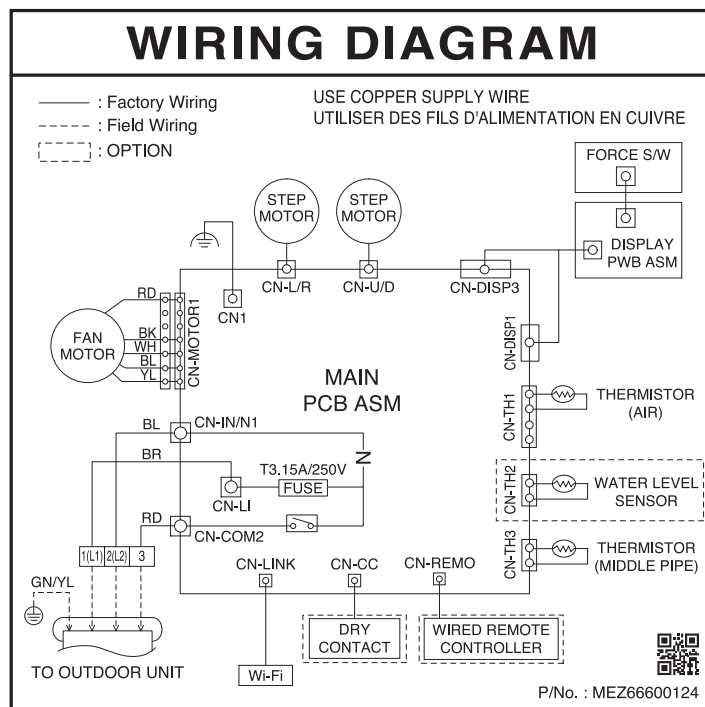
Model	Gas		Liquid	
	mm	inch	mm	inch
LA150HYV3, LA180HYV3, LA240HYV3 LS243HLV3, LS303HLV3, LS363HLV3	Ø 15.88	Ø 5/8	Ø 9.52	Ø 3/8

Appendix	Heat Exchanger	Propeller Fan	Cross Flow Fan	Compressor	Accumulator	4 Way Valve
	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve 3-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint	Muffler	Strainer		

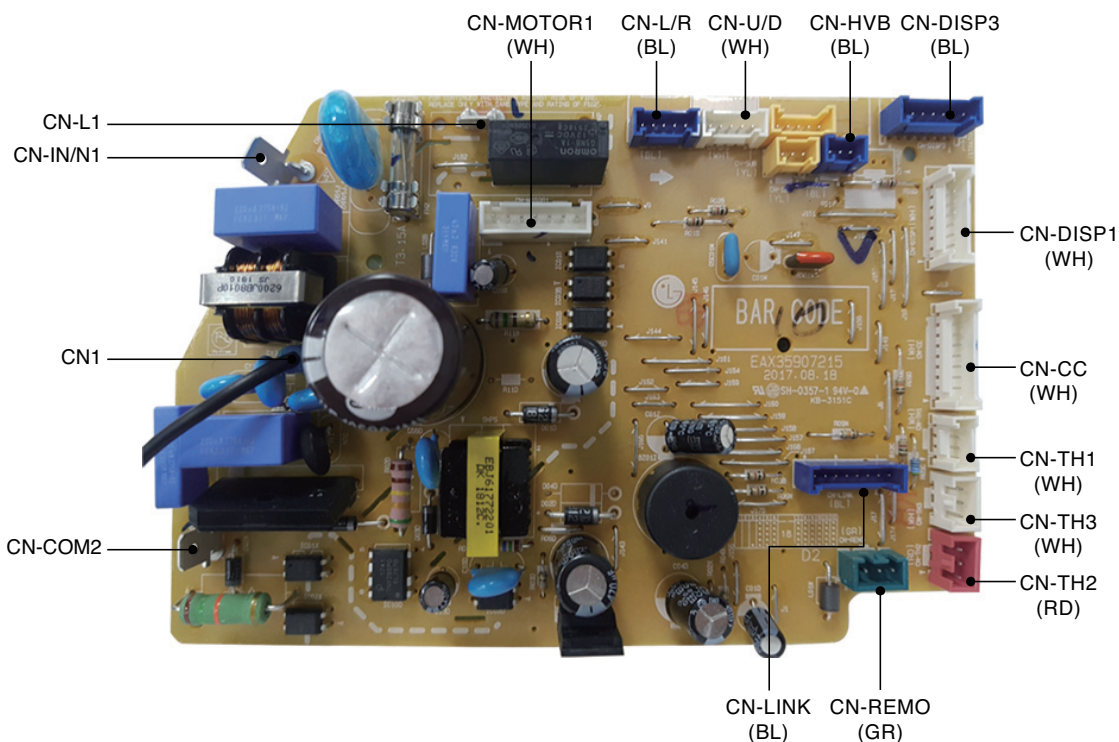
4. Wiring Diagrams

Indoor Unit

LAN090HYV3 (S4NW09K21FA), LAN120HYV3 (S4NW12K21FA), LAN150HYV3 (S4NW15L41FA)
 LAN180HYV3 (S4NW18L41FA), LAN240HYV3 (S4NW24L41FA), LSN243HLV3 (S4NW24L43FA)
 LSN303HLV3 (S4NW30R43FA), LSN363HLV3 (S4NW36R43FA)

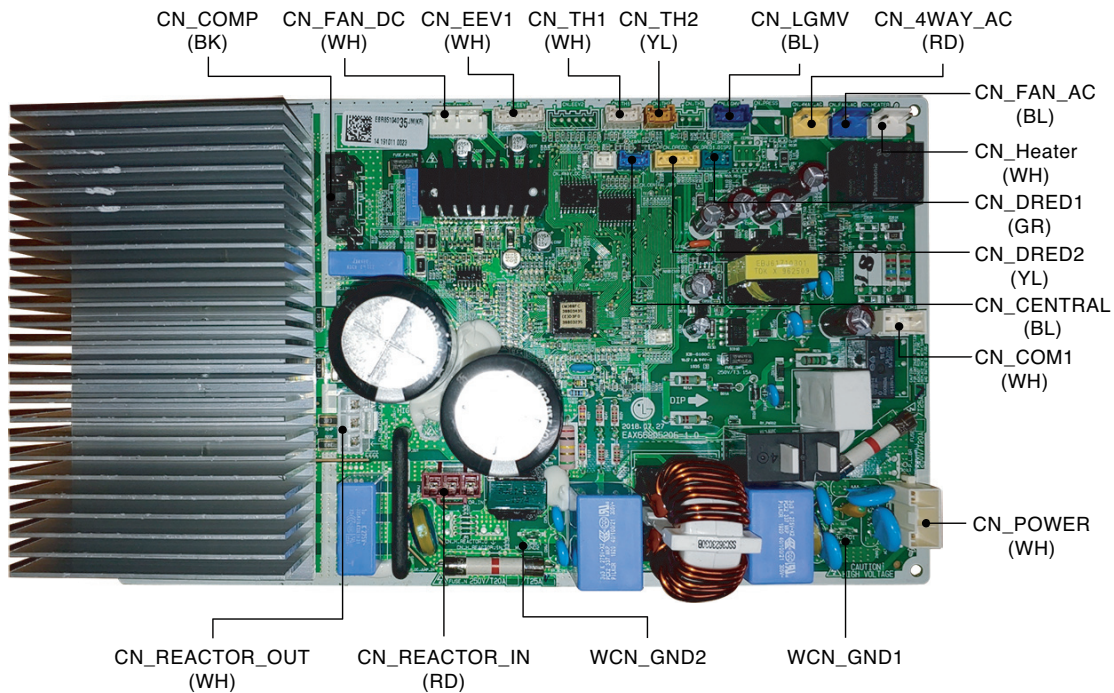
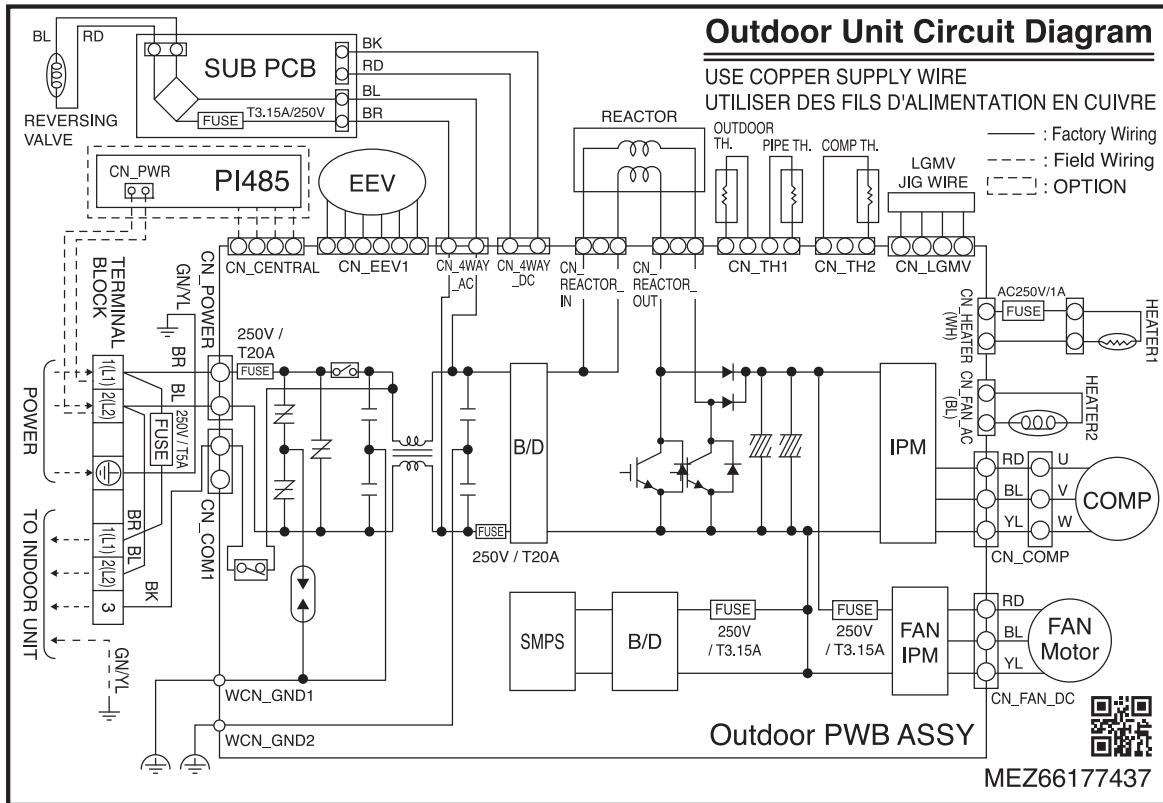


* Auxiliary heater relay kit is not available on single zone wall mounted models.



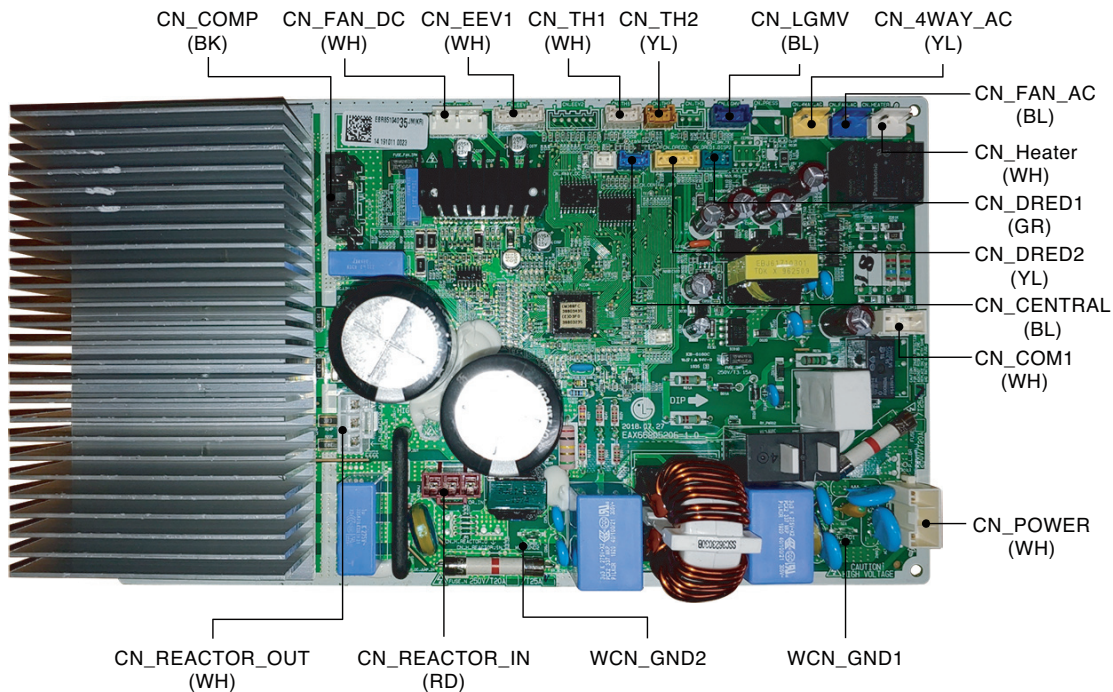
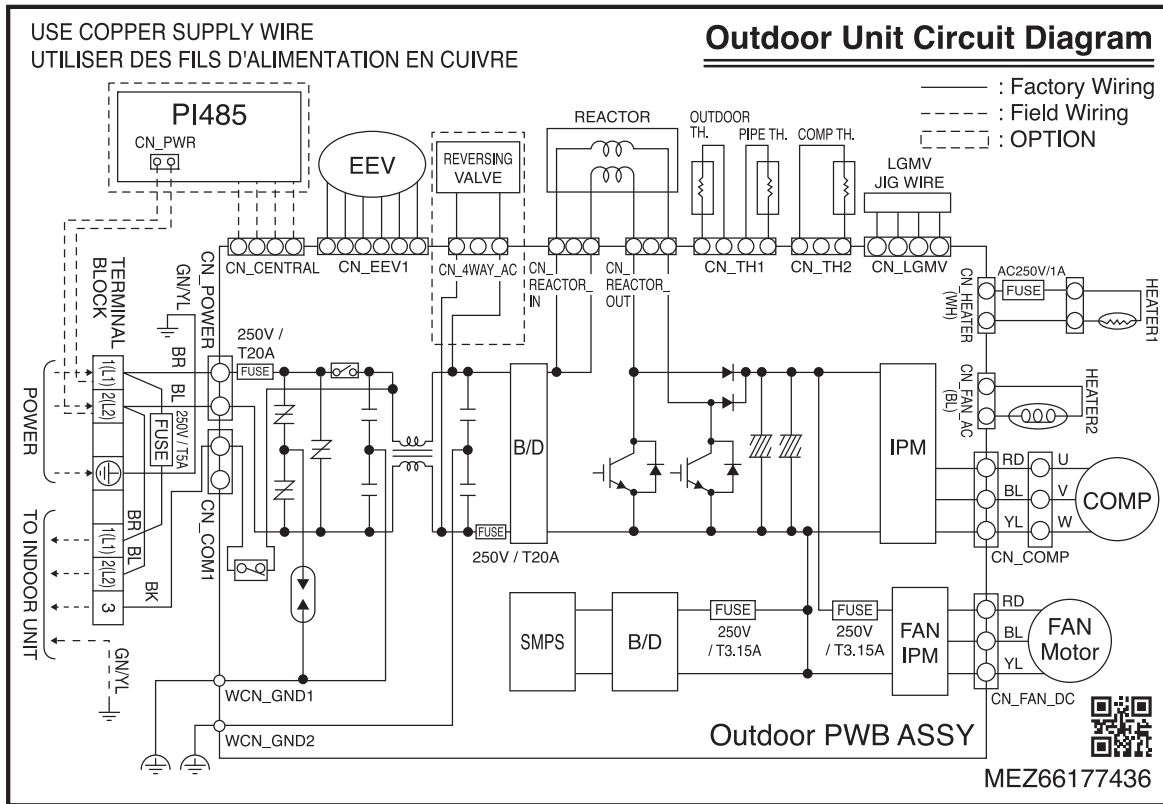
Outdoor Unit

LAU090HYV3 (S4UW09K21FA), LAU120HYV3 (S4UW12K21FA)



Outdoor Unit

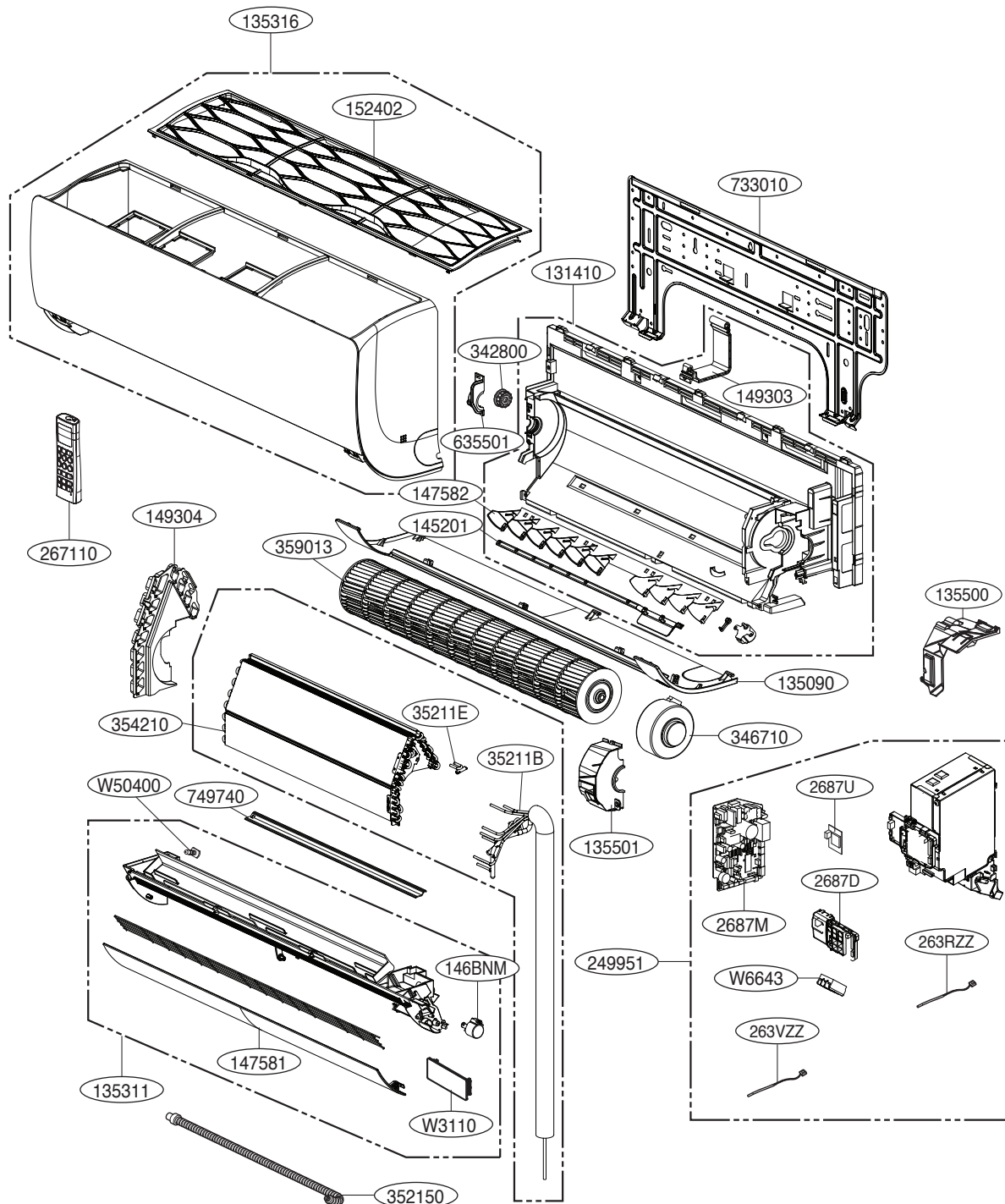
LAU150HYV3 (S4UW15L41FA), LAU180HYV3 (S4UW18L41FA), LAU240HYV3 (S4UW24L41FA)
LSU243HLV3 (S4UW24L43FA), LSU303HLV3 (S4UW30R43FA), LSU363HLV3 (S4UW36R43FA)



5. Exploded View

Indoor Unit

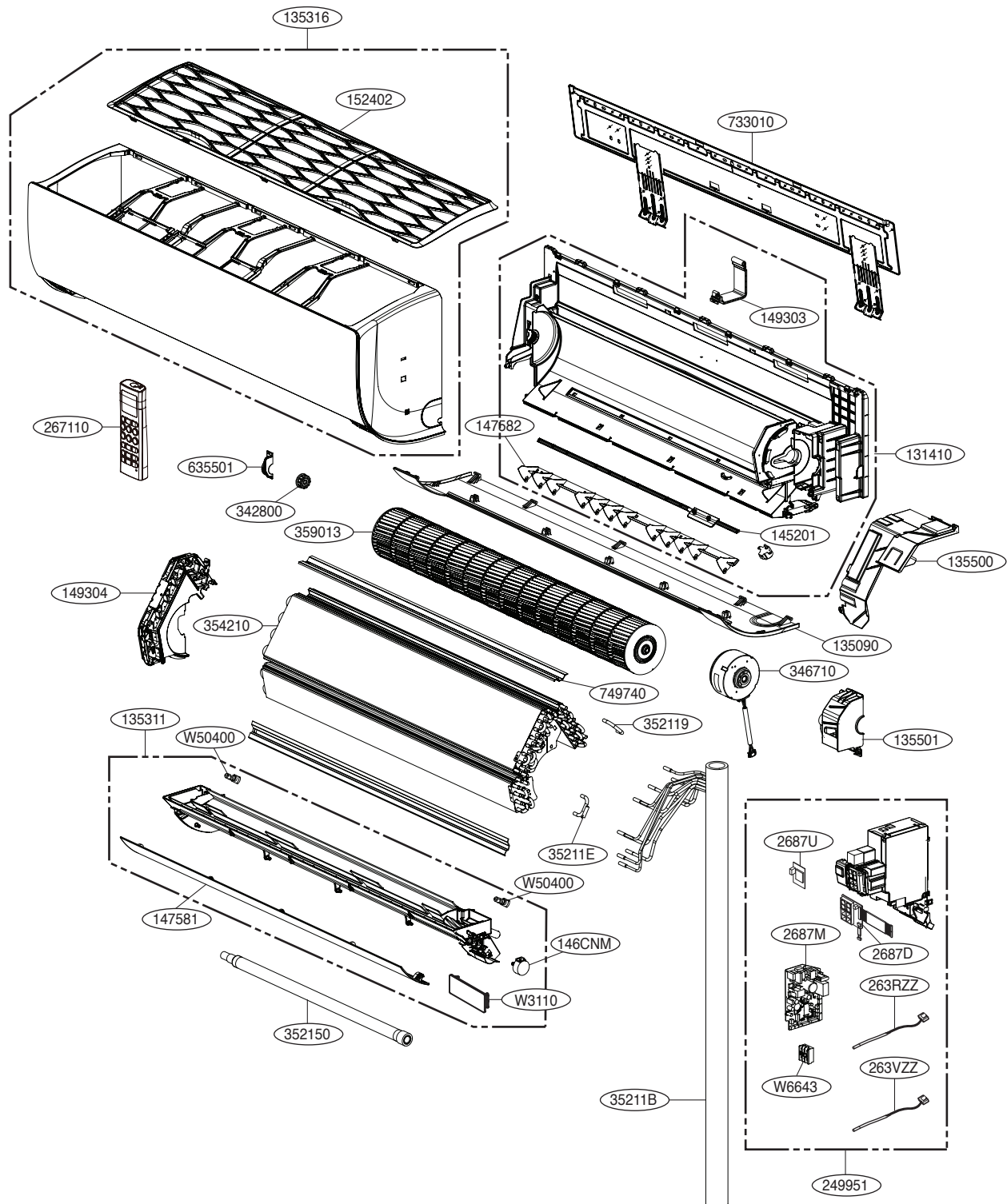
LAN090HYV3 (S4NW09K21FA), LAN120HYV3 (S4NW12K21FA)



LOC.	Description	PCB Connector
263RZZ	Thermistor for indoor air temperature	CN-TH1 (INDOOR)
263VZZ	Thermistor for evaporating temperature	CN-TH3 (INDOOR)

Note) Please ensure GCSC since the replacement parts may be changed depending upon the buyer's request. Please check the correct parts in View RPL(Replacement Part List) on GCSC. (GCSC Website <http://www.lge.com>)

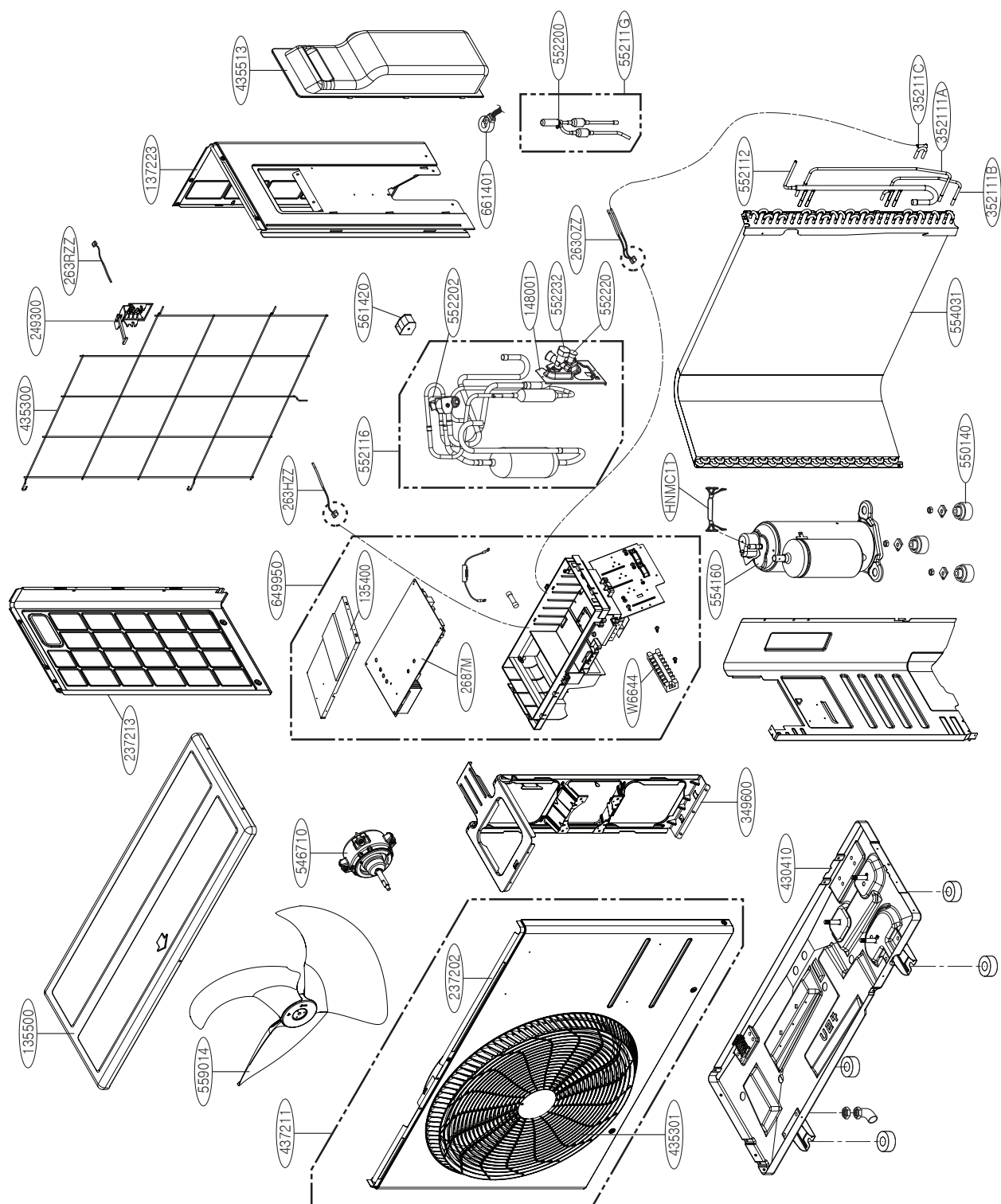
**LAN150HYV3 (S4NW15L41FA), LAN180HYV3 (S4NW18L41FA)
LAN240HYV3 (S4NW24L41FA), LSN243HLV3 (S4NW24L43FA)
LSN303HLV3 (S4NW30R43FA), LSN363HLV3 (S4NW36R43FA)**



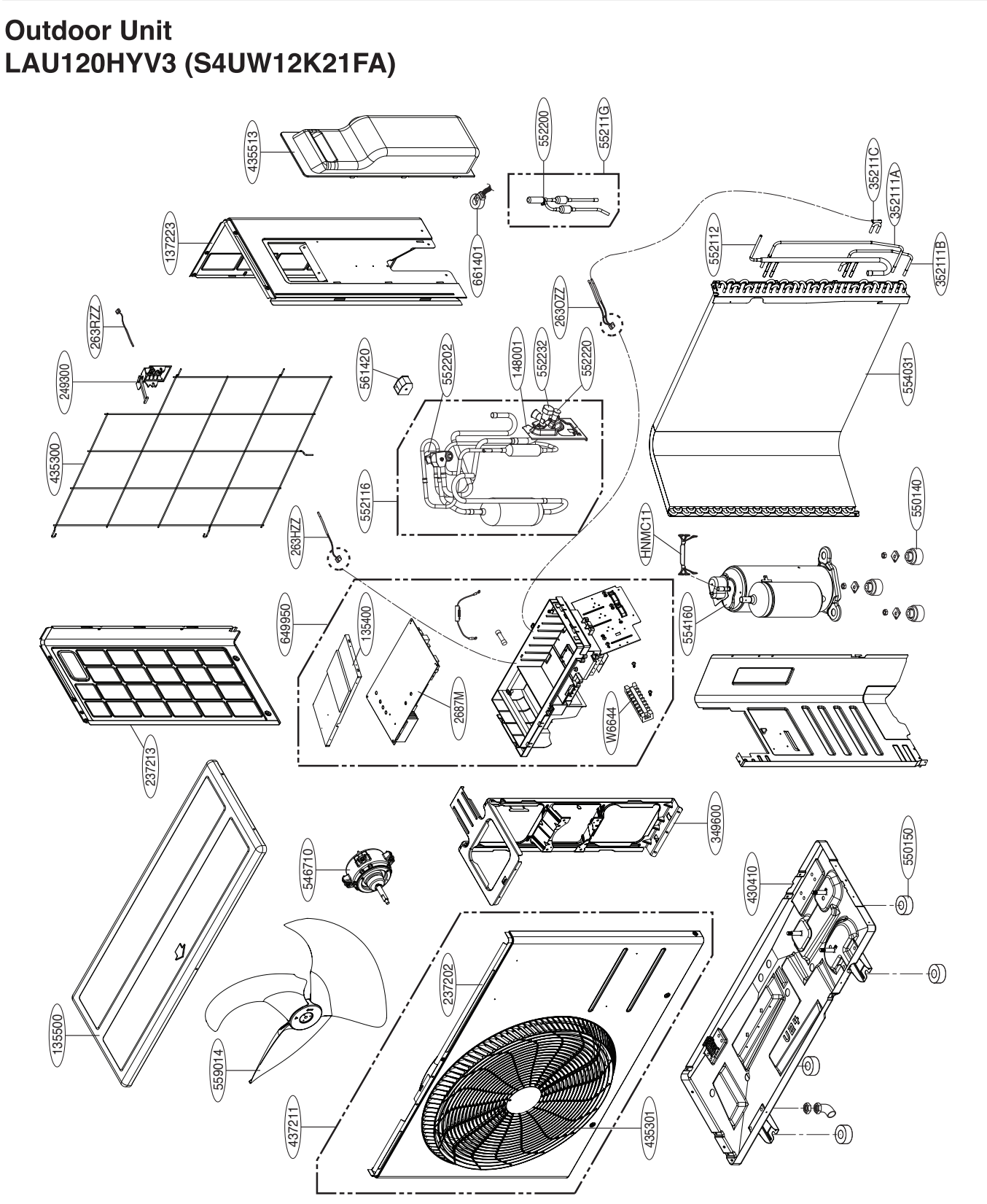
LOC.	Description	PCB Connector
263RZZ	Thermistor for indoor air temperature	CN-TH1 (INDOOR)
263VZZ	Thermistor for evaporating temperature	CN-TH3 (INDOOR)

Outdoor Unit

LAU090HYV3 (S4UW09K21FA)

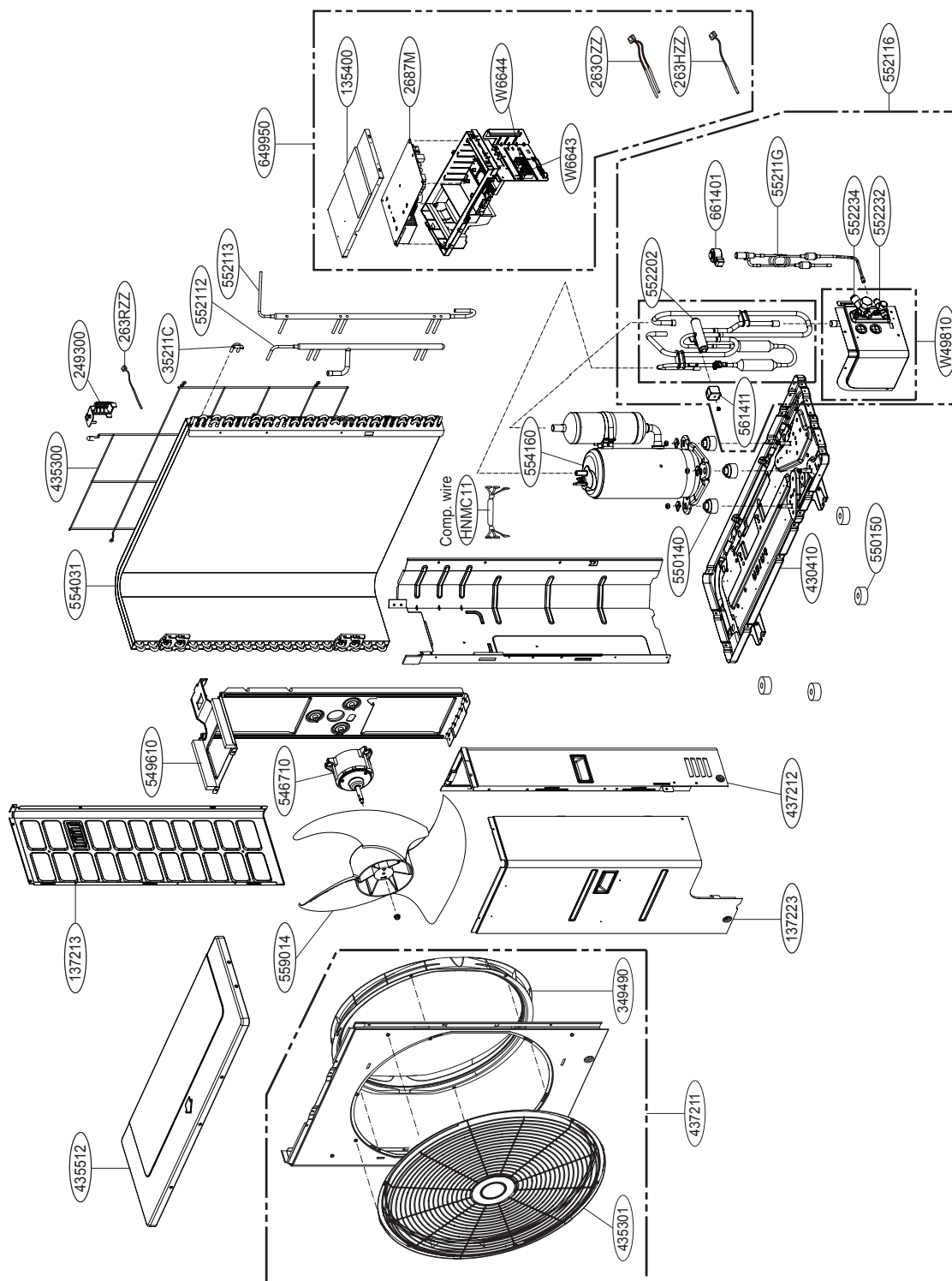


LOC.	Description	PCB Connector
263HZZ	Thermistor for discharge pipe temperature	CN_TH2
263OZZ	Thermistor for condensing temperature	CN_TH1
	Connector for Outdoor Air Temperature Thermistor	
263RZZ	Thermistor For Outdoor air temperature	



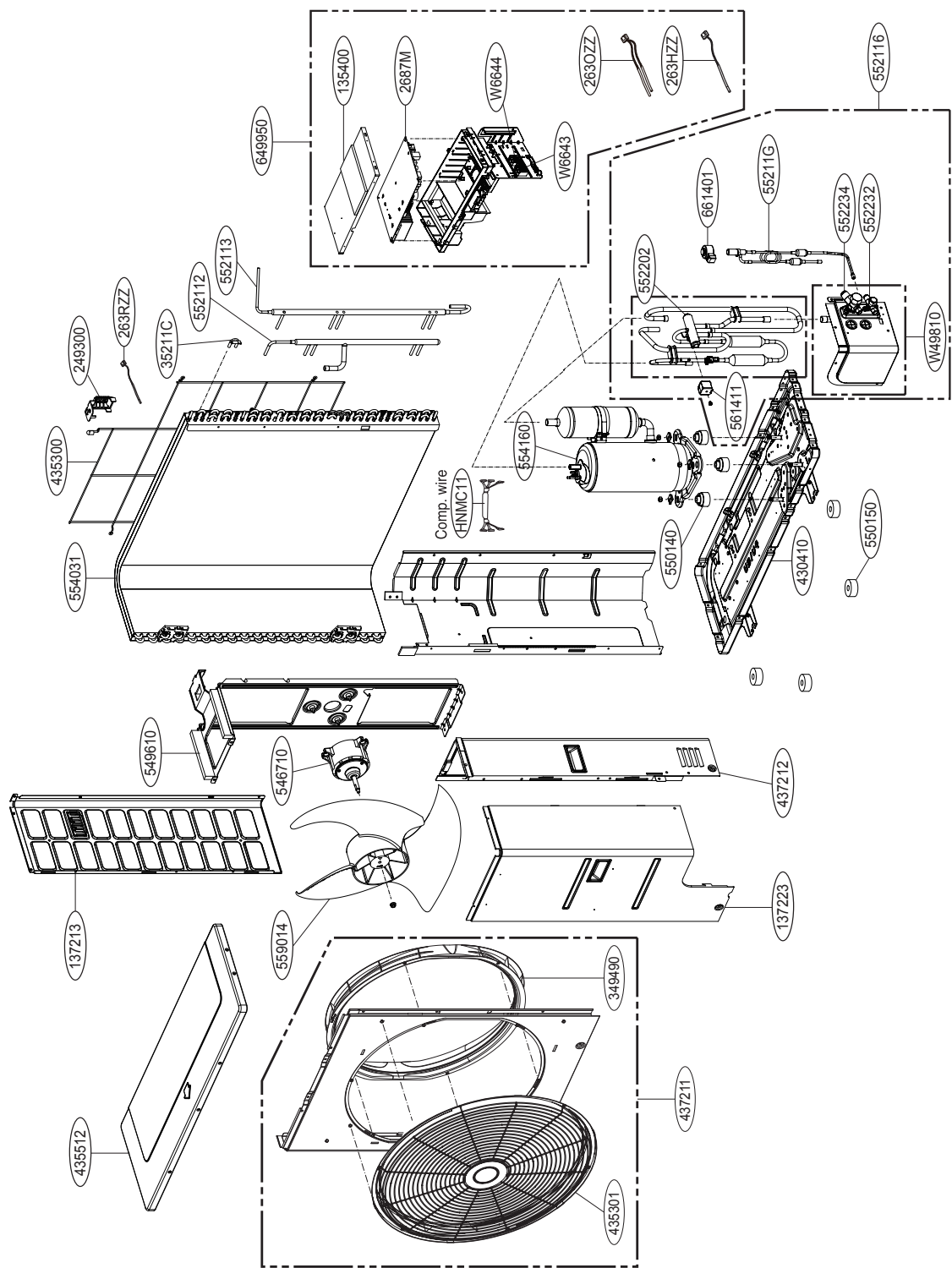
LOC.	Description	PCB Connector
263HZZ	Thermistor for discharge pipe temperature	CN_TH2
263OZZ	Thermistor for condensing temperature	CN_TH1
	Connector for Outdoor Air Temperature Thermistor	
263RZZ	Thermistor For Outdoor air temperature	

**LAU150HYV3 (S4UW15L41FA), LAU180HYV3 (S4UW18L41FA)
LSU243HLV3 (S4UW24L43FA), LSU303HLV3 (S4UW30R43FA)**



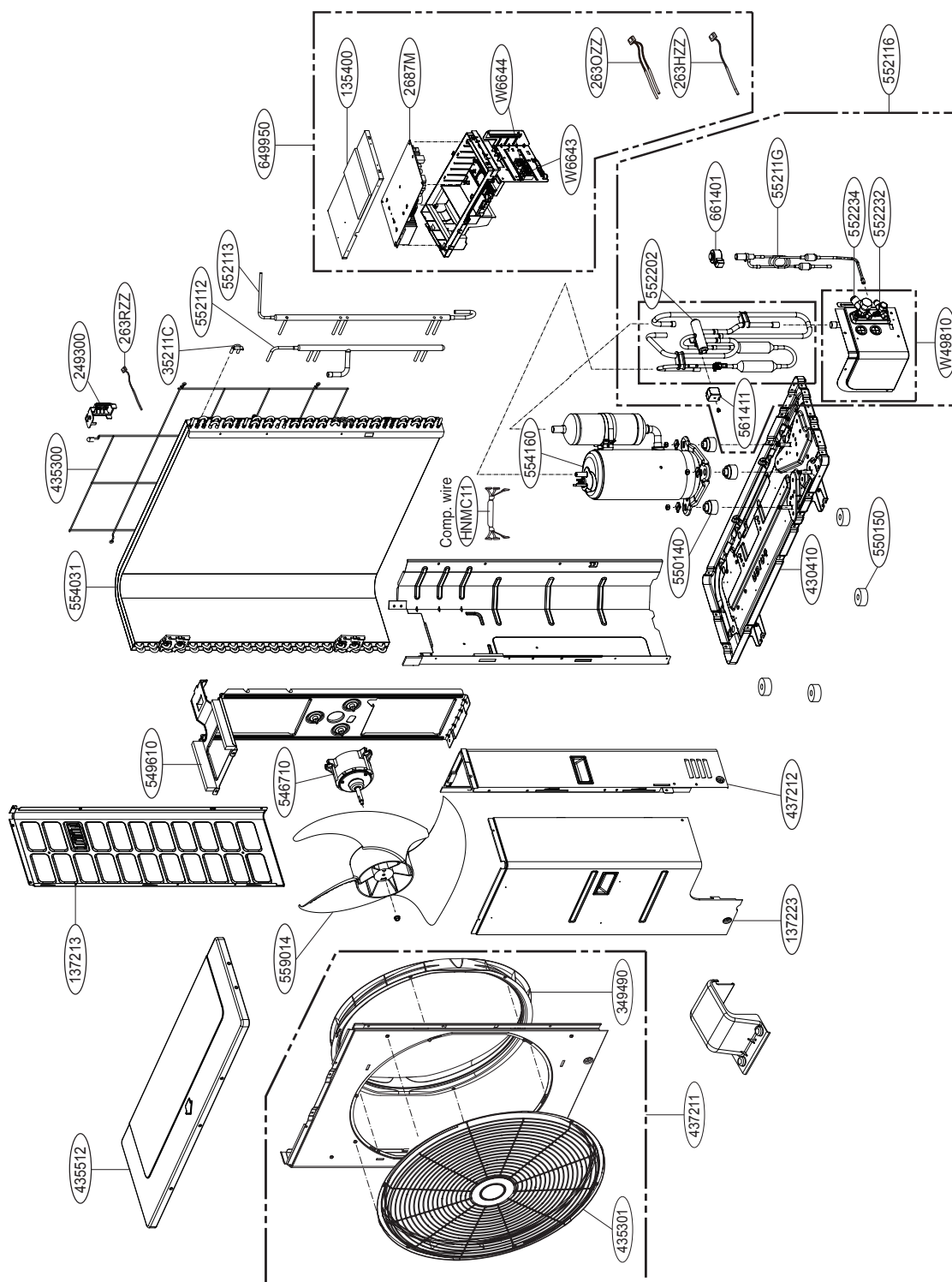
LOC.	Description	PCB Connector
263HZZ	Thermistor for discharge pipe temperature	CN_TH2
263OZZ	Thermistor for condensing temperature	CN_TH1
263RZZ	Connector for Outdoor Air Temperature Thermistor	
263RZZ	Thermistor For Outdoor air temperature	

LAU240HYV3 (S4UW24L41FA)



LOC.	Description	PCB Connector
263HZZ	Thermistor for discharge pipe temperature	CN_TH2
263OZZ	Thermistor for condensing temperature	CN_TH1
	Connector for Outdoor Air Temperature Thermistor	
263RZZ	Thermistor For Outdoor air temperature	

LSU363HLV3 (S4UW36R43FA)



LOC.	Description	PCB Connector
263HZZ	Thermistor for discharge pipe temperature	CN_TH2
263OZZ	Thermistor for condensing temperature	CN_TH1
263RZZ	Connector for Outdoor Air Temperature Thermistor	
263RZZ	Thermistor For Outdoor air temperature	



US	1. Please call the installing contractor of your product, as warranty service will be provided by them. 2. If you have service issues that have not been addressed by the contractor, please call 1-888-865-3026.
CANADA	Service call Number # : (888) LG Canada, (888) 542-2623

P/NO : MFL67501939