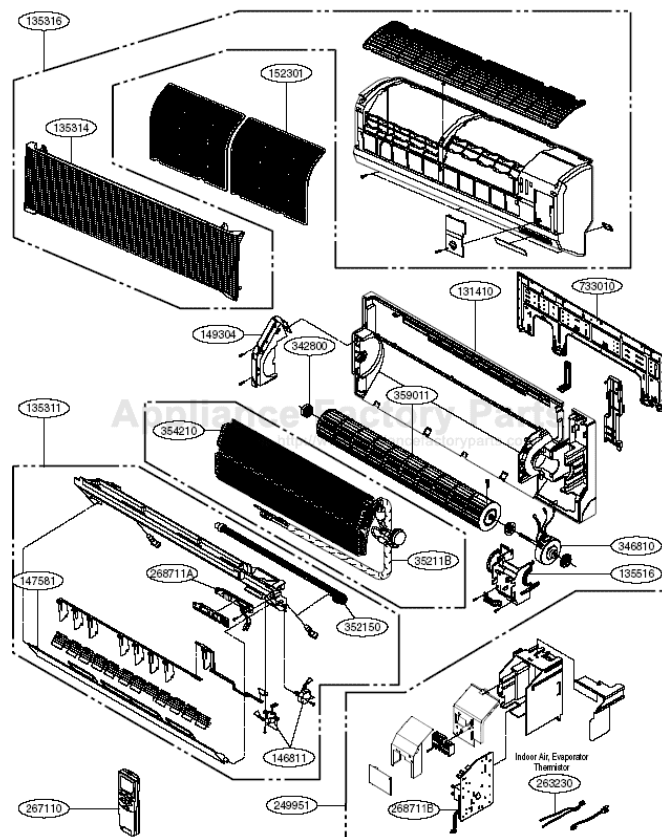


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# HEAT CONTROLLER AS-Q1835JZ0 Owner's Manual

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HEAT CONTROLLER, INC.

**Wall Mounted  
Mini-Split System  
Inverter Single-Zone  
Air Conditioning**

*Service Manual*

**Model: AS-Q1835JZ0 [VMC18SB-1]  
AS-Q2435JZ0 [VMC24SB-1]**

**CAUTION**

Before servicing the unit, read the  
“safety precautions” in this manual.

Only for authorized service personnel.

# 1. Specification

Models		AS-Q1835JZ0 [VMC18SB-1]	AS-Q2435JZ0 [VMC24SB-1]
Cooling Capacity (Min~Rating~Max)	kW	1.76~5.28~5.80	3.87~7.03~7.74
Heating Capacity (Min~Rating~Max)	Btu/h	6,005~18,000~19,790	13,200~24,000~26,400
Power Input	kW	-	-
Running Current	Btu/h	-	-
Starting Current	W	1640/-	2450/-
EER	A	7.3/-	11.0/-
COP	A	7.3/-	11.0/-
Power Supply	W/W	3.22	2.87
Power Factor	Btu/h.W	11.0	9.8
Air Flow Rate	W/W	-	-
Moisture Removal	W/W	-	-
Sound Level	Ø / V / Hz	1/208-230/60	1/208-230/60
Refrigerant & Charge(at 7.5m)	%	98	97
Additional Refrigerant Charge	%	98	97
Compressor	mm³/min(cfm)	18.5(650)	20.3(717)
Fan(Indoor)	mm³/min(cfm)	42(1,483)	58(2,048)
Fan(outdoor)	l/h	2.1	2.7
Circuit Breaker*	dB(A)+3	40/38/34	45/40/37
Power Supply Cable	dB(A)+3	53	54
Power and Transmission Cable	g(oz)	R410A, 1,200(42)	R410A, 1,800(63)
Piping Connections	g/m(oz/ft)	20(0.22)	30(0.32)
Drain Hose	Type	Rotary	Rotary
Dimension	Model	5CS130XCA03	5KD240XCA21
Net Weight	Motor Type	BLDC	BLDC
Operation Range	Oil Type	RB68A	FV50S
Max. Piping Length	Oil Charge	cc	900
Max. Elevation Difference	O.L.P Name	-	-
Tool Code(Chassis)	Type	Cross Flow Fan	Cross Flow Fan
Functions	Motor Output	W	20
Network Functions	Type	Propeller	Propeller
	Motor Type	BLDC	AC Induction
	Motor Output	W	85.3
	Temperature Control	A	20
	Plasma Filter	NEC	14
	Prefilter(washable/anti-fungus)	NEC	18
	Auto Clean	mm(in)	6.35(1/4)
	CHAOS Wind(Auto Wind)	mm(in)	12.7(1/2)
	Steps, Fan/Cool/Heat	mm(in)	21.5,16(0.85,0.63)
	Airflow Direction Control(up&down)	mm	1,090*300*178
	Airflow Direction Control(left&right)	inch	42.9*11.8*7.0
	Remocon Type	mm	870*655*320
	Setting Temperature	inch	34.3*25.8*12.6
	Range	kg(lbs)	13.0(28.7)
	Auto Operation (Micom Control)	kg(lbs)	48(105.8)
	Auto Changeover (Micom Control)	°C	-10 ~ 46 (14.0~114.8)(Low Ambient)
	Self Diagnosis	°C	-
	Timer	m(ft)	15(49)
	Sleep Operation	m(ft)	7(23)
	Soft Dry Operation	S8 + UE	S8 + UE1
	Restart Delay(minute)	Thermistor	Thermistor
	Deice Control(Defrost)	-	-
	Hot Start	-	-
	Jet Cool / Heat	-	-
	Low Ambient Operation	-	-
	Special Function	-	-
	Dry Contact	-	-
	Network Solution(LGAP)	-	-
	PI485	-	-

**Note:**

O : Applied, - : No relation

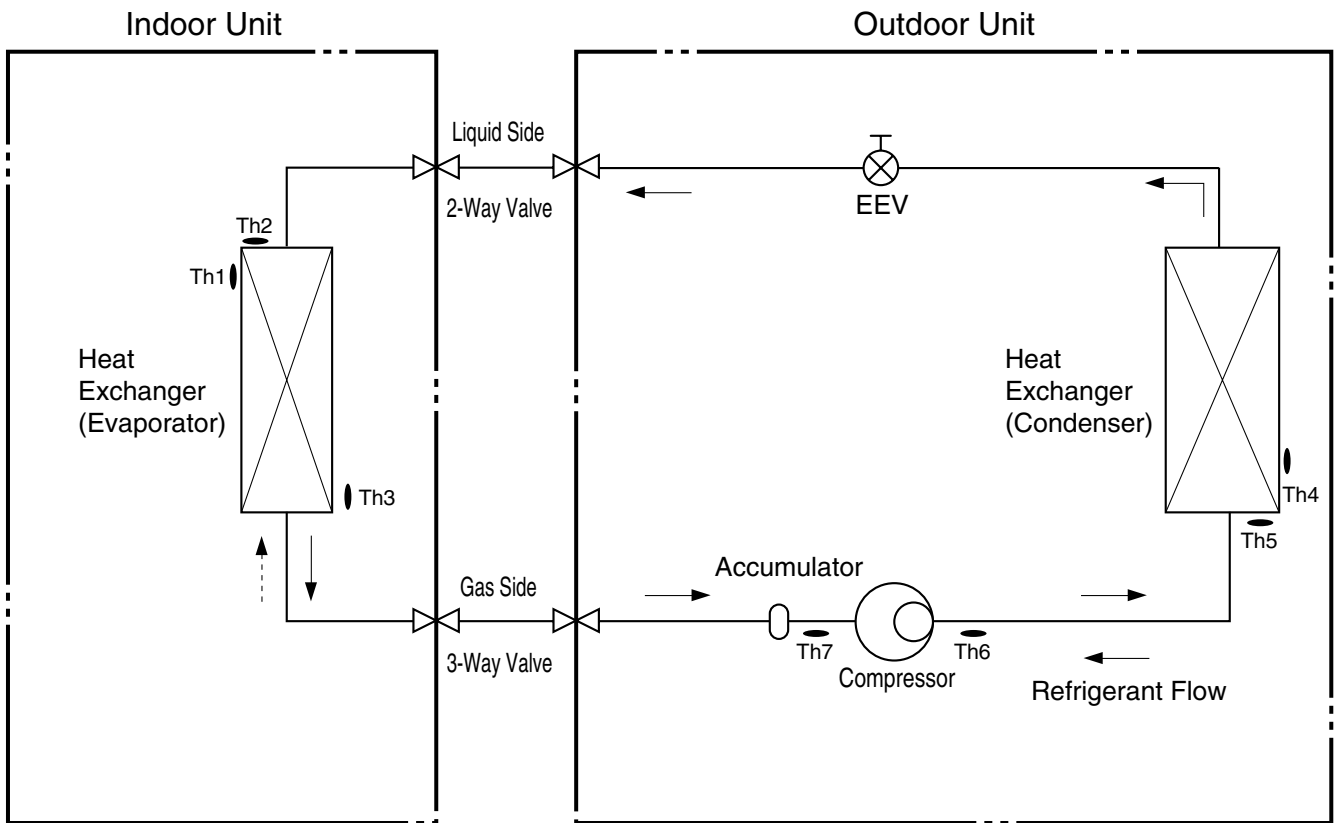
\* For circuit breaker rating, please conform to local standards wherever necessary.

\* Some of functions are slightly different depending upon models.

\* The specification may be subject to change without prior notice for purpose of improvement.

\* Capacity : based on 203V.

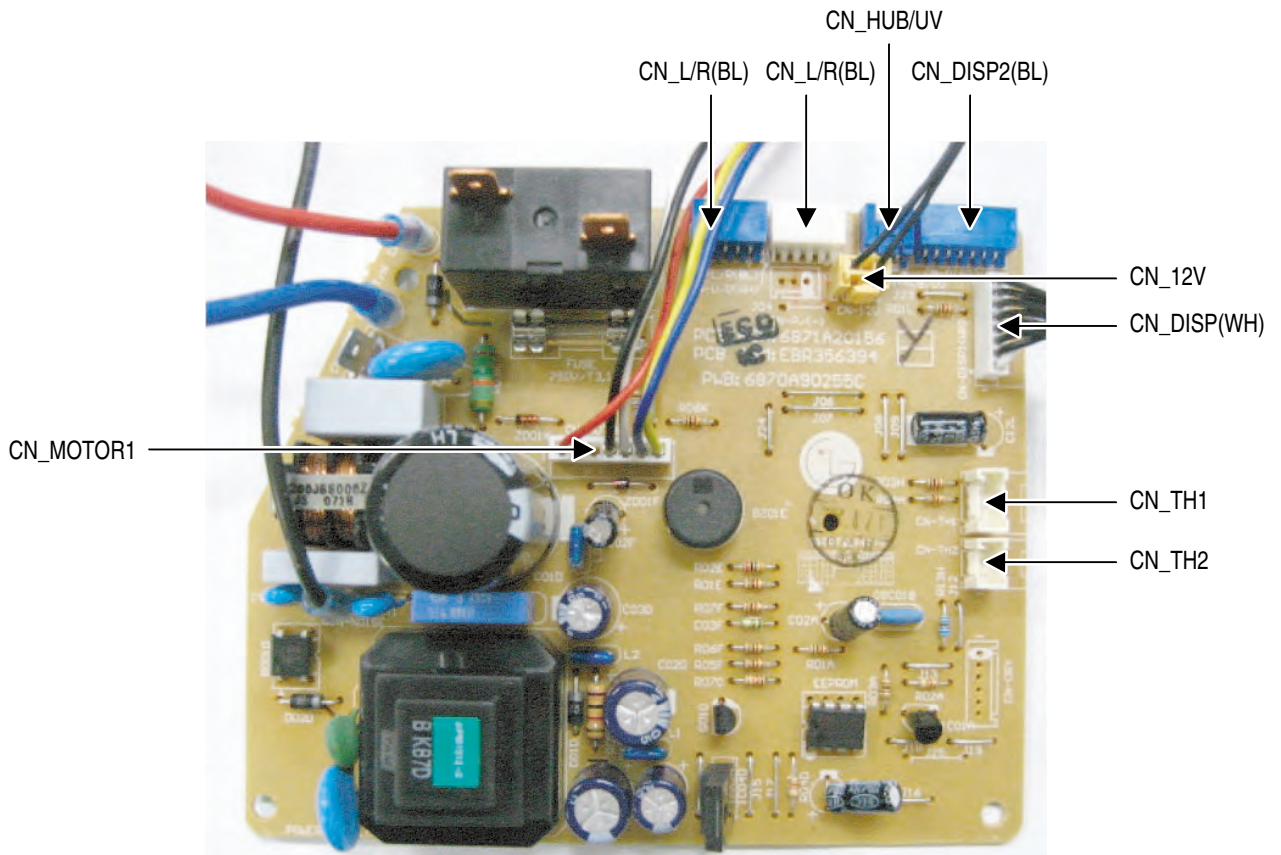
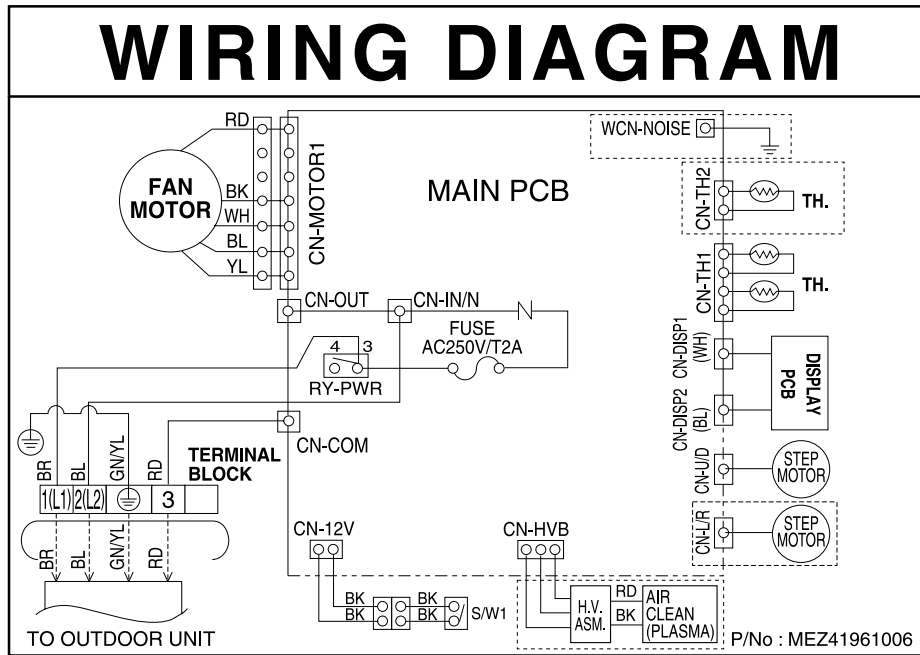
## 2. Piping Diagrams



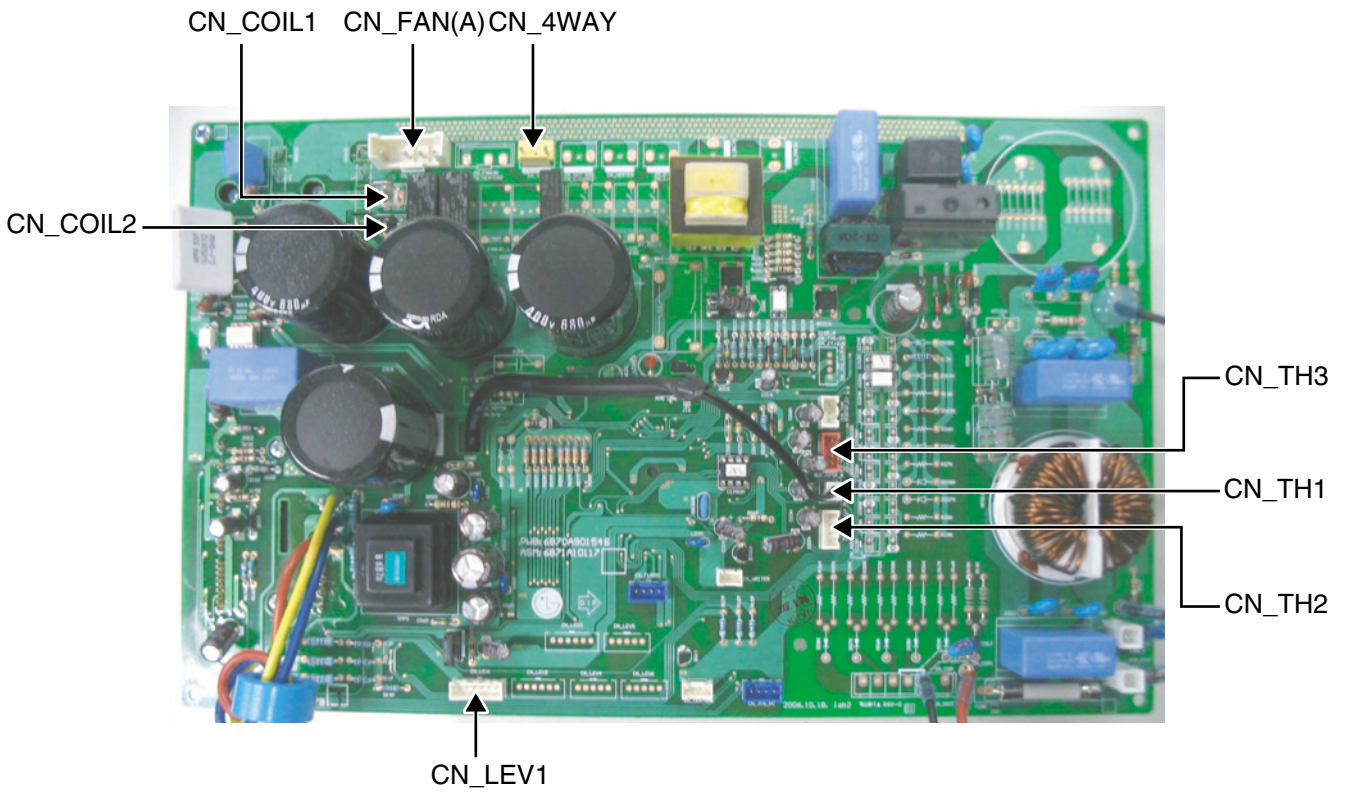
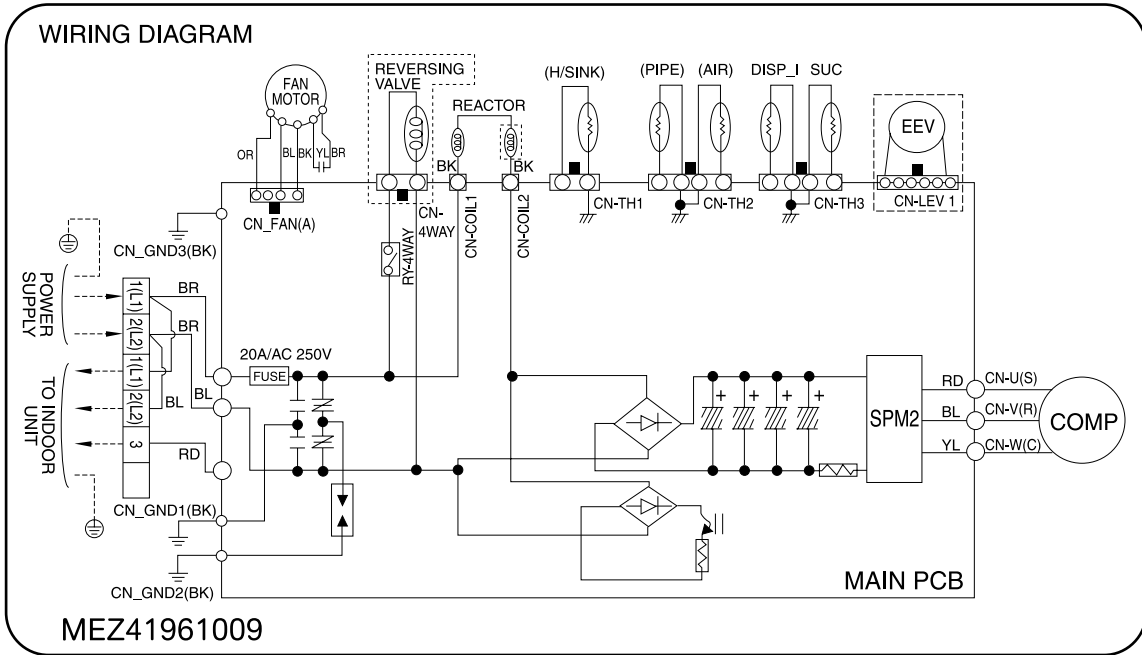
LOC.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN_TH1(INDOOR)
Th2	Thermistor for evaporating temperature	CN_TH2(INDOOR)
Th3		CN_TH3(INDOOR)
Th4	Thermistor for outdoor air temperature	CN_TH2(OUTDOOR)
Th5	Thermistor for condensing temperature	
Th6	Thermistor for discharge pipe temperature	CN_TH3(OUTDOOR)
Th7	Thermistor for suction pipe temperature	

### 3. Wiring Diagrams

#### Indoor Unit

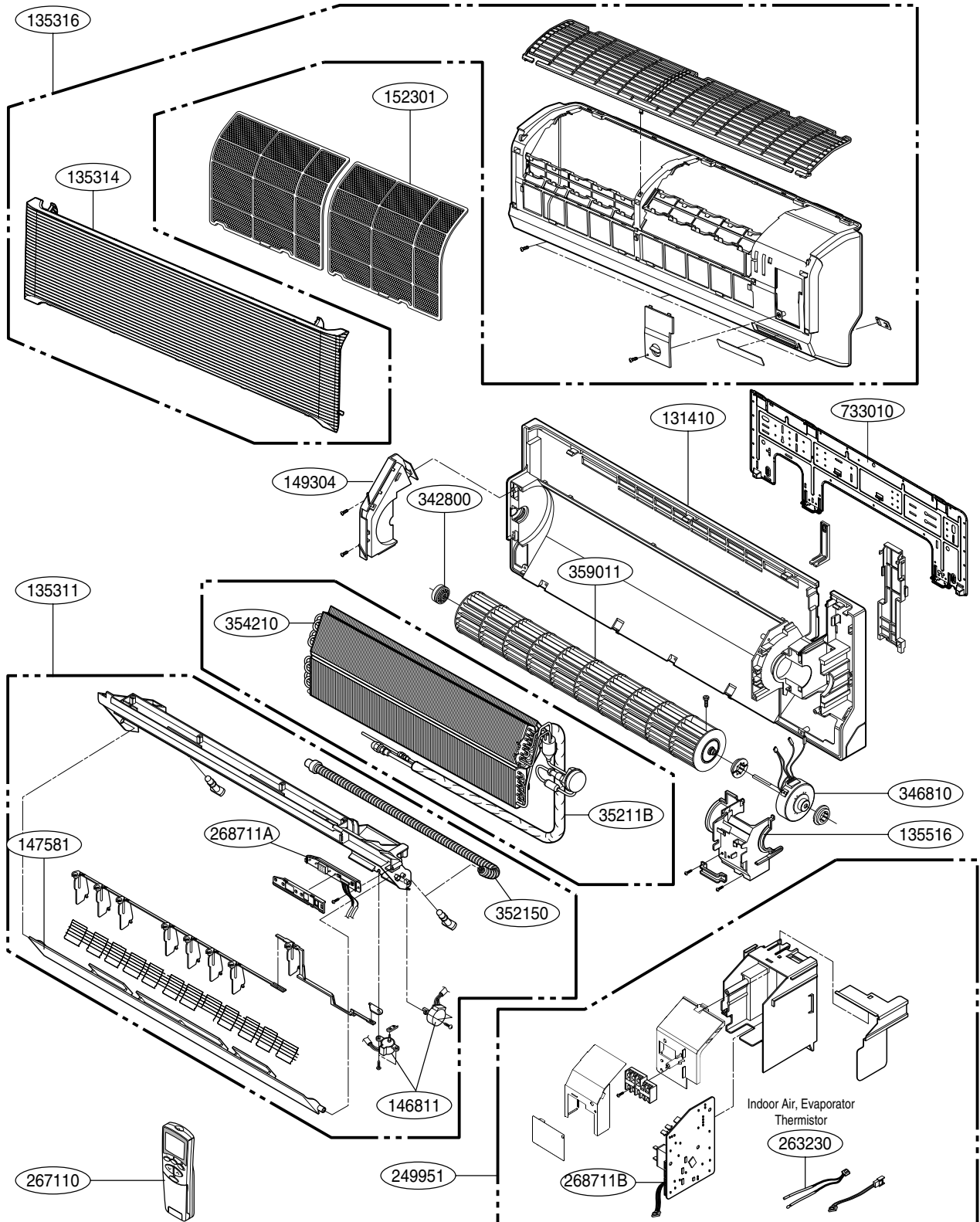


# Outdoor Unit



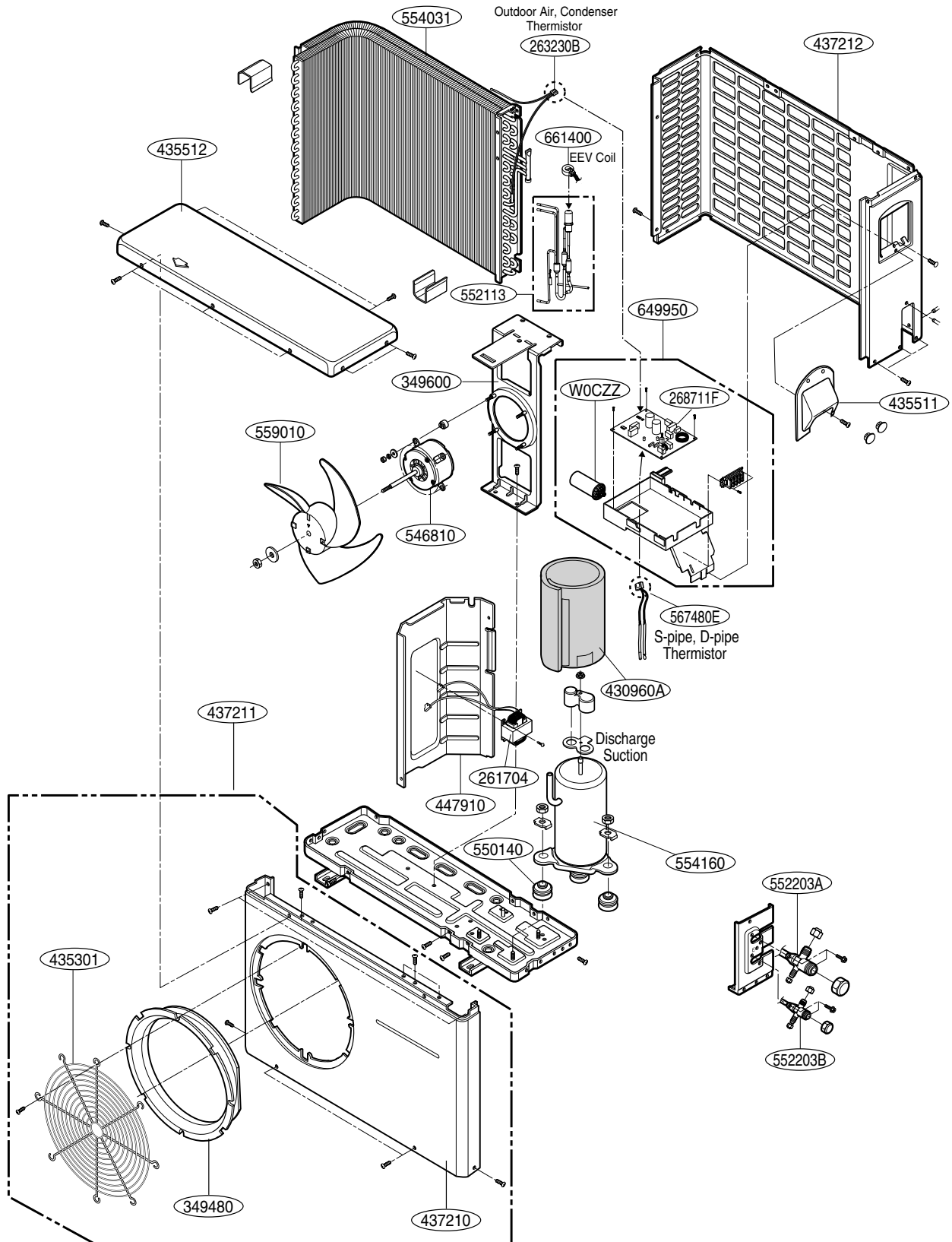
## 4. Exploded View

### Indoor Unit



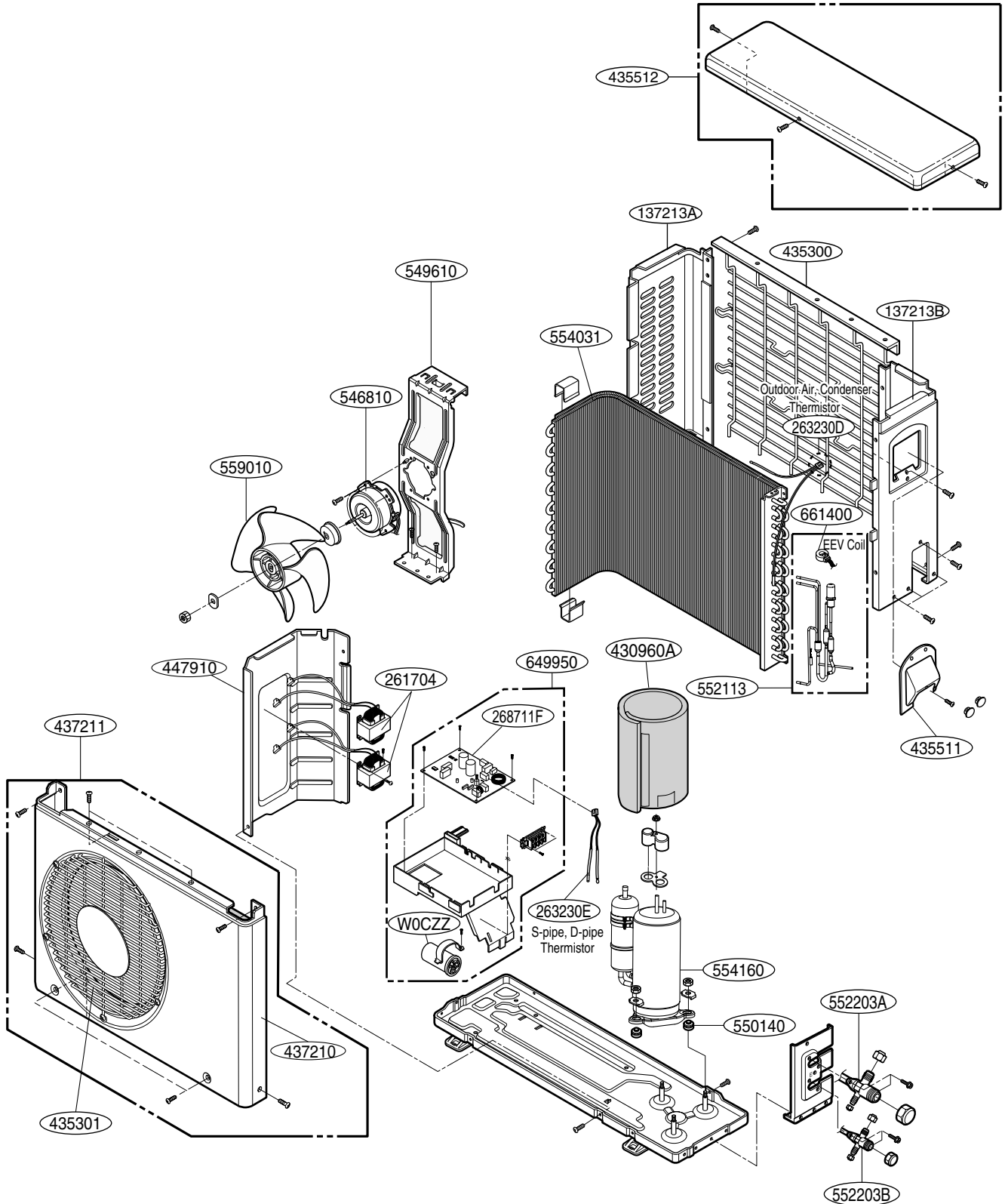
Note) \* Please ensure GCSC since the replacement parts may be changed depending upon the buyer's request.  
Please check the correct parts in View RPL(Replacement Part List) on GCSC.  
(GCSC Website <http://biz.lgservice.com>.)

# Outdoor Unit 18k



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://biz.Lgservice.com>.)

# Outdoor Unit 24k



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://biz.Lgservice.com>.)

**Specifications and performance data subject to change without notice.**

## **HEAT CONTROLLER, INC.**

1900 WELLWORTH AVENUE • JACKSON, MICHIGAN 49203

*THE QUALITY LEADER IN CONDITIONING AIR*

P/No.:MFL42286413