



Click in this document to return to free HVAC information at InspectApedia.com

LG Electronics, Company Website: <http://www.lg.com> , Singapore & World Wide

Contact an LG Support Representative at 1 800-822-822 (National call Rate), or in Singapore: Call an LG Support Representative at 6512 0555

Room Air Conditioner

SVC MANUAL(Exploded View)

MODEL : H2UC186FA0
 H3UC216FA0
 H3UC246FA0

CAUTION

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

1. Specification

Outdoor unit			H2UC186FA0	H3UC216FA0	H3UC246FA0
Nominal Capacity	Cooling	kW	2.93 ~ 6.30	2.81 ~ 6.15	2.63 ~ 7.03
		Btu/h	10,000 ~ 21,500	9,600 ~ 21,000	9,000 ~ 24,000
Nominal Input	Heating	kW	-	-	-
		Btu/h	-	-	-
Testing Combination	Cooling	kW	1.60 ~ 1.80	1.82	0.83 ~ 2.14
		Btu/h	-	-	-
Running Current(Rating)	Heating	kW	-	-	-
		Btu/h	-	-	-
Starting Current	Cooling/Heating	A	59.0	59.0	54.0
Power Supply		Ø / V / Hz	1/220 ~ 240/50	1/220 ~ 240/50Hz	1/220 ~ 240/50Hz
Power Supply Cable(Outdoor)		No. x mm ²	3 x 2.5	3 x 2.5	3 x 2.5
Power and Transmission Cable(Outdoor to Indoor or Outdoor to BD)		No. x mm ²	4 x 0.75(Including Earth)	4 x 0.75(Including Earth)	4 x 0.75(Including Earth)
Power and Transmission Cable(BD to Indoor)		No. x mm ²	-	-	-
Dimensions	W x H x D	mm(inch)	870x655x320(34.2x25.8x12.6)	870x655x320(34.2x25.8x12.6)	870x655x320(34.2x25.8x12.6)
Net Weight		kg(lbs)	52(115)	53(117)	55(121)
Max. Number of Connectable Indoor Units			2	3	3
Compressor (#1)	Type		ROTARY	ROTARY	ROTARY
	Qty x Model		1 x QP325PBA	1 x QP325PBA	1 x QK164PBC
	Motor type		Induction	Induction	Induction
	Oil charge volume	cc	700	700	700
Compressor (#2)	Oil Type		4GSI	4GSI	4GSI
	Type		-	-	ROTARY
	Qty x Model		-	-	1 x QJ250PD24C
	Motor type		-	-	Induction
Refrigerant	Oil charge volume	cc	-	-	410
	Oil type		-	-	4GSI
	Cycle A Charge (at 7.5m)	g(oz)	1,300(45.86)	1,300(45.86)	1,300(45.86)
	Cycle B Charge (at 7.5m)	g(oz)	-	-	-
Additional Refrigerant Charge	Type		R22	R22	R22
	Control		LEV	LEV	LEV
	g/m(oz/ft)		30 (0.32)	30 (0.32)	30 (0.32)
Heat Exchanger	(Rows x Column x FPI) xNo.		(2R x 30C x 21) x 1	(2R x 30C x 21) x 1	(2R x 16C x 18) x 1
	Defrosting Method		-	-	-
Fan	Capacitor	µF / vac	6	6	6
	Drive		-	-	-
	Discharge Direction(Side/Top)		Side	Side	Side
	Air flow Rate x No. of Fan	CMM(cfm)	51(18.01)x1	51(18.01)x1	51(18.01)x1
Sound Level(H/L)	Sound Pressure	dB(A)+3	54	54	56
Condensing unit	Liquid(Cycle A)	mm(inch)	6.35	6.35	6.35
	Service Valve	Gas(Cycle A)	mm(inch)	9.52	9.52
Max. Interunit Piping Length	Total Piping	m	30	45	45
	Each Branch Piping	m	15	15	20
Max. Elevation Difference	Outdoor Unit~Indoor Unit	m	7.5	7.5	7.5
	Indoor Unit~Indoor Unit	m	7.5	7.5	7.5
Operation Range (Outdoor)	Cooling	°C(°F)	18 - 43	18 - 43	18 - 43
	Heating	°C(°F)	-	-	-
Reliability	Category	Function			
		Defrost / Deicing	-	-	-
		High pressure switch	-	-	-
		Low pressure switch	-	-	-
		Phase protection	-	-	-
		Restart delay (3-minutes)	○	○	○
		Self diagnosis	○	○	○
		Soft start	○	○	○
Convenience		Test function	○	○	○
		Auto operation(Artificial intelligence)	○	○	○
		Auto restart operation	○	○	○
CAC network function		Network solution(LGAP)	○	○	○
		PDI(Power Distribution Indicator)	PQNUD1S00	PQNUD1S00	PQNUD1S00
		PI485	PMNFP14A0	PMNFP14A0	PMNFP14A0
Special function kit	Low ambient operation	×	×	×	
Others	Thermistor	-	-	-	

Note:

* ○ : Applied X : Not applied - : No relation
For circuit breaker rating, please conform to local standards wherever necessary.

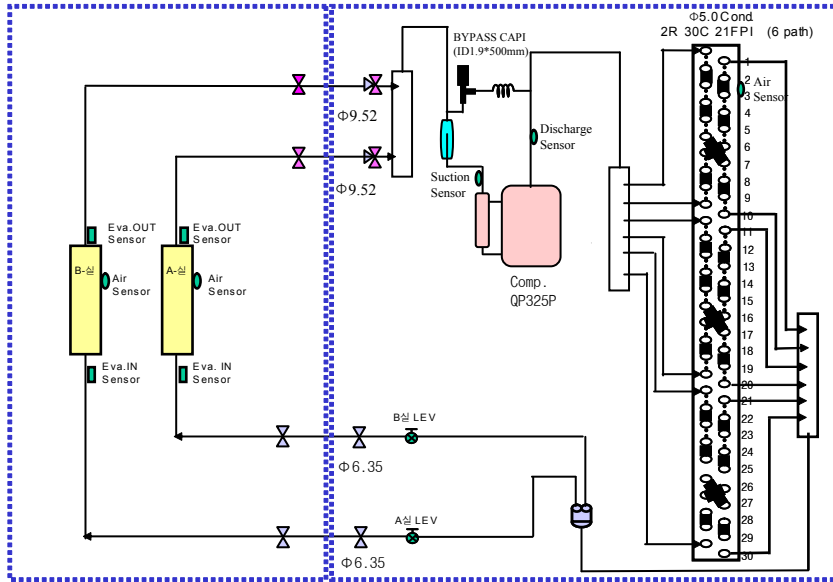
* Some of functions are slightly different depending upon models.

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

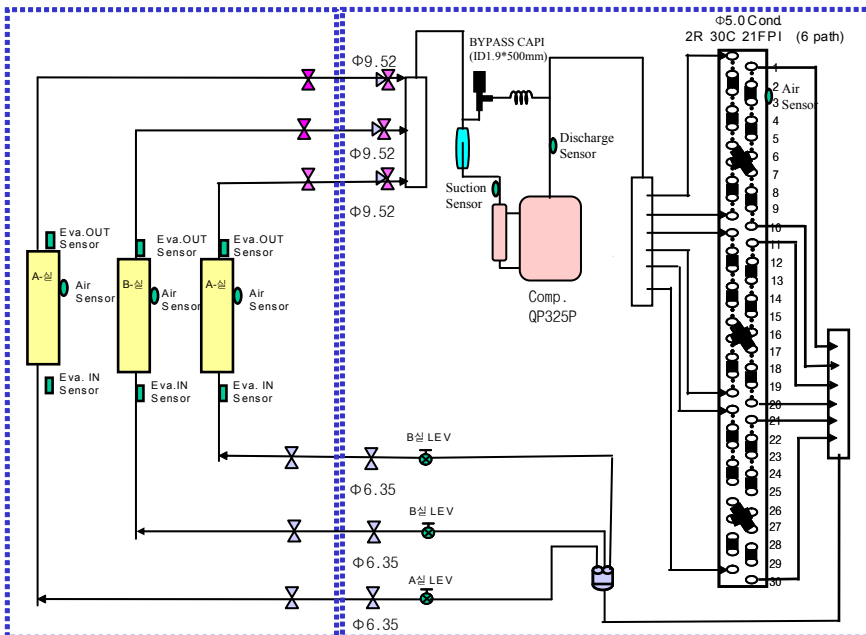
2 Room Air Conditioner

2. Piping Diagrams

H2UC186FA0

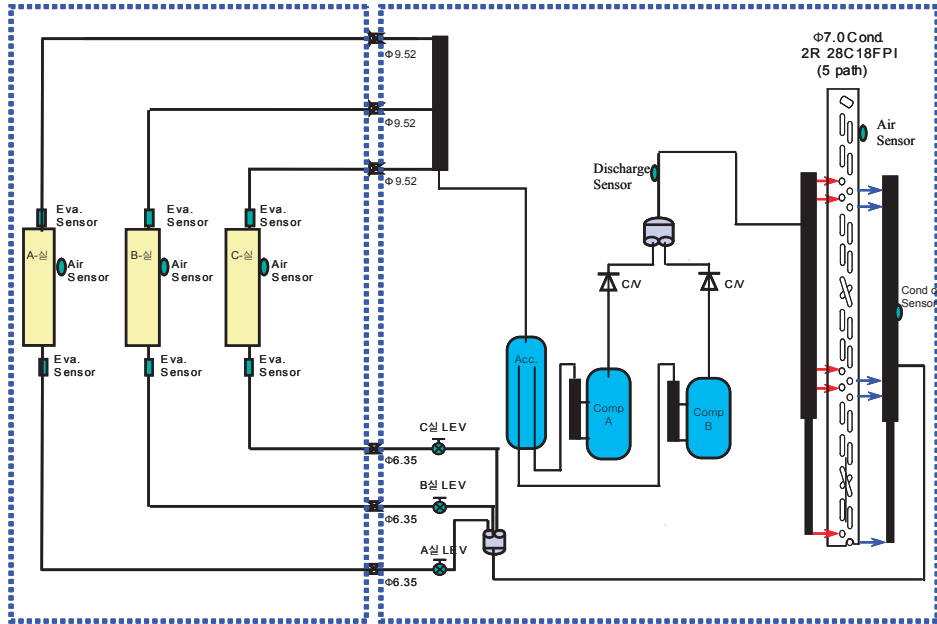


H3UC216FA0



2. Piping Diagrams

H3UC246FA0



ex)

	Capillary
	Solenoid Valve
	L.E.V
	3-Way Valve
	2-Way Valve

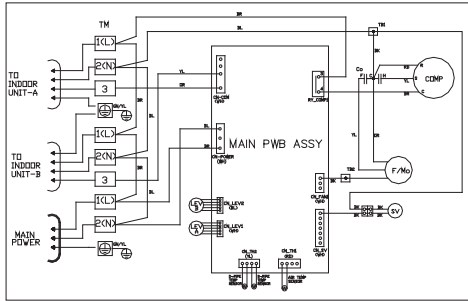
Th1 :Thermistor for suction air temp.
 Th2 :Thermistor for Discharge air temp.
 Th3 :Thermistor for Room Out temp.

■ Refrigerant pipe connection port diameters

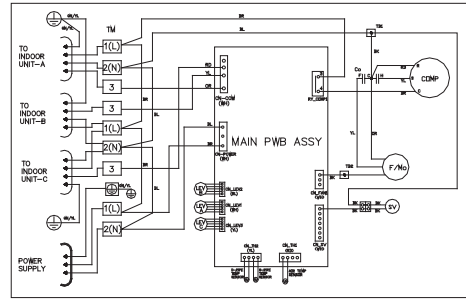
Model	Gas	Liquid	(mm)
H2UC186FA0	Ø9.52 X 2 EA	Ø6.35 X 2 EA	
H3UC216FA0 H3UC246FA0	Ø9.52 X 3 EA	Ø6.35 X 3 EA	

3. Wiring Diagram

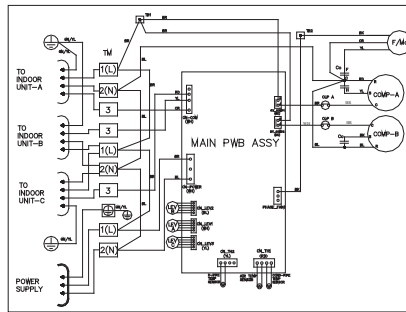
Models: H2UC186FA0 / H3UC216FA0 / H3UC246FA0



1. H2UC186FA0



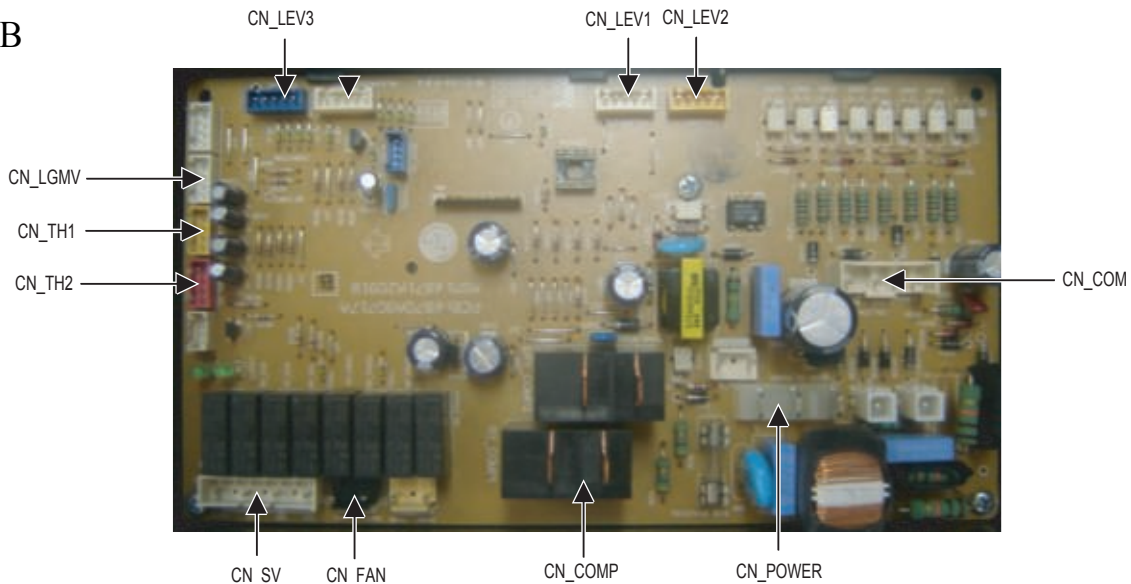
2. H3UC216FA0



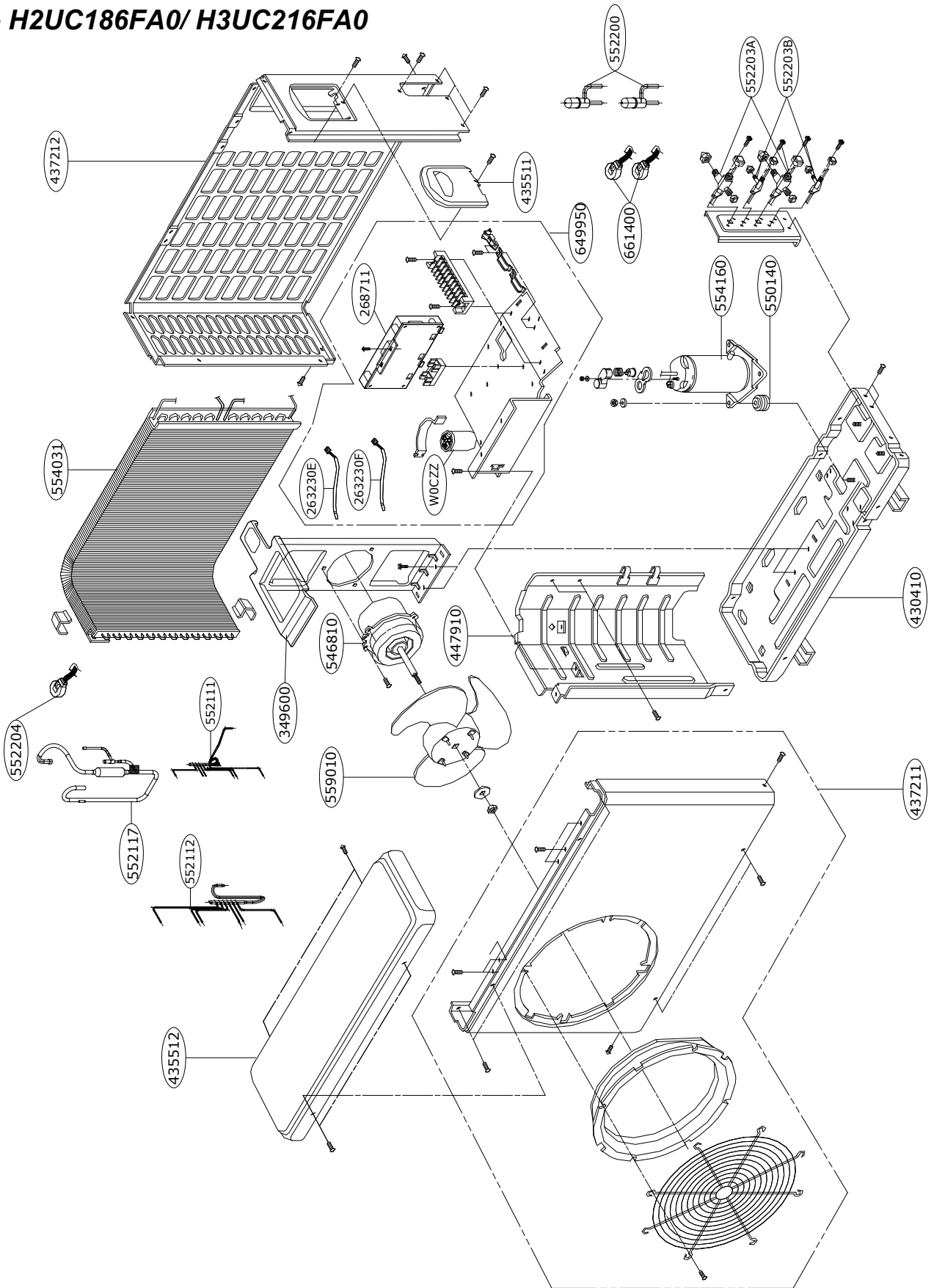
3. H3UC246FA0

Connector Number	Location
CN_POWER	AC power supply
CN_COMP	Compressor output
CN_FAN	Fan motor output
CN_SV	Display
CN_TH1	Pipe sensor
CN_TH2	Cond & Air sensor
CN_LGMV	LGMV input
CN_LEV	LEV output
CN_COM	Signal Output

PCB



- H2UC186FA0/ H3UC216FA0



-H3UC246FA0

