LG Electronics

2004

LG AIR CONDITIONERS

PRODUCT DATA

Room Air Conditoners-60Hz

LR60 2004-A1-1

February 13th, 2004

Single Split Type

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General Description

Split type of Air Conditioner are known by the category name of Wall Mounted Type of units.These units can be easily installed in a small space and have exceptional Cooling capacity.Designed for Low-noise operation,it ensures a pleasant air conditioned environment.

LG Offers various types of units to its customers to suit for the best application and requirement.The following are the important categories offered by LG :

1) Standard Wall Mounted Type Units : Units with the Simplicity in design.
2) Art Cool Units : A new concept of cooling introduced by LG in the field of Air Conditioning. These units are capable of providing the 3 Dimensional Air Flow with the excellent aesthetic aspects.
3) Inverter Units : These units are capable of saving the Power consumption with the unique inverter technology.
4) New Gas Models : These models uses the HCFC free refrigerant to provide the healthy environment to the world.

Some of the Important Features of these units are listed below :

1) Providing Health to the Customers : By have the Filters such as Plasma Filter which is capable of removing the Micro Organisms up to 0.1 microns.
2) Long Term Money Saving : By proving the Features such as Gold Fin,Plasma Fin, Auto Clean etc. to maintain the same performance throughout the years.
3) Best Comfort : With the Features such as Sleep Mode,Timer,Auto Restart etc.

The Units are available with many standard and optional features which gives our Customers the free choice to select the unit of their own desire.For details refer to the Detailed specification followed after this description.

LG Electronics Inc.

Air Conditioning Division

Single Wall Mounted

Capacity	R22	
8k	O	
9k	O	
11k	O	
12k	O	O
14k	O	
18k	O	O
21k	O	
24k	O	O
30k	O	O
32k	O	O
36k	O	O
38k	O	O

ART COOL

Capacity		R22	
		C/O	H/P
Standard	8k	O	
	9k	O	
	11k	O	
	12K	O	O
	14K	O	☆
Deluxe	8k	O	
	11k	O	
	14k	O	
	18k	☆	☆
	24k	☆	☆
Wide	18k	O	O
	24k	☆	☆

☆ **will be developed in the first half of 2004**

Model Number Nomenclature

• Identification Rule 1:

L	S		T	1	8	2	C	A	G
1	2	-	3	4	5	6	7	8	9

Code	Type	Code of Model	Meaning
1, 2	Type of Airconditioner	A~Z	LS: LG Split Type Airconditioner
3	Chassis	A~Z	Name of tool of Unit Ex. LS-N ➔ SN Chassis
4, 5	Capacity	0~9	Cooling/Heating Capacity Ex. "09" ➔ 9,000Btu/h
6	Electric Range	1~9	Electric Standard 1: 115V/60Hz, 6: 220-240V/50Hz 2: 220V/60Hz 7: 110V, 50/60Hz 3: 208-230V/60Hz 8: 380-415V/50Hz 5: 200-220V/50Hz 9: 380-415V/60Hz
7	Function	0~9 A~Z	
8	Cooling/Heating	A~Z	C: Cooling only X: Cooling + E/Heater H: Heat pump V: Invert Cooling only F: Cooling (New Ref.) N: Invert Heat pump R: Heat pump(New Ref.) D: Gold pin(Outdoor) + Plasma + C/O E: Gold pin(Outdoor) + Plasma + H/P
9	LG/OEM Brand	A~Z	L: LG Brand M: 1st OEM Brand G: 2nd LG Brand N: 2nd OEM Brand

A	0	Basic
A	0	Basic+4 Way
B	1	Plasma Filter
C	2	Plasma Filter+4 Way
D	3	Tele + LED
E		Tele + LCD
F	5	Plasma F+4 Way+Tele+LCD
G	6	Low A+A/change
H	7	Low A+A/change+Plasma F
I		Tele +LED+Plasma F
J	8	Internet
K	9	4 way+Plasma F+ Oxygen generator
L	Z	4 way+Soft Start
M	Y	4 way+Star Rating
N	X	4 way+Star Rating +Plasma F
P	W	4 way+Soft S+Star Rating
Q	V	4 way+Soft S+Star Rating 4+Plasma F
R	U	4 way+Tele+LCD
S	T	4 way+Tele+LCD+Soft Start
4		4 way+Mult Tele+LCD+Plasma F
8		Wired remote controller

Note: • Identification Rule 1 is old one.
• Identification Rule 2 is new one.

Model Number Nomenclature

• Identification Rule 2:

L	S		C	1	8	2	T	G	M	0
1	2	-	3	4	5	6	7	8	9	10

Code	Type	Code of Model	Meaning
1	Producing Center, Refrigerant	A~Z	L: Chang-won R22 A: Chang-won R410A C: Chang-won R407C T: China K: Turkey R22 E: Turkey R410A H: Thailand N: India Z: Brazil D: Indonesia M: Mexico V: Vietnam S: Out Sourcing
2	Product Type	A~Z	Split Type Air Conditioner
3	Cooling/Heating/Inverter	A~Z	C: Cooling only H: Heat pump X: C/O + E/Heater Z: H/P + E/Heater V: AC Inverter C/O N: AC Inverter H/P Q: DC Inverter C/O W: DC Inverter H/P
4, 5	Capacity	0~9	Cooling/Heating Capacity Ex. "09" → 9,000 Btu/h
6	Electric Range	1~9 A~Z	1: 115V/60Hz, 2: 220V/60Hz 3: 208-230V/60Hz 5: 200-220V/50Hz 6: 220-240V/50Hz 7: 110V, 50/60Hz 8: 380-415V/50Hz 9: 380-415V/60Hz A: 220V, 50Hz, 3Phase B: 208~230V, 60Hz, 3Phase C: 575V, 50Hz, 3Phase D: 440~460, 60Hz, 3Phase E: 265V, 60Hz F: 200V, 50/60Hz
7	Chassis	A~Z	Name of Chassis of Unit Ex. LSN → SN Chassis
8	Look	A~Z	Look, Color (Artcool Model)
9, 10	Function	A~Z	A: Basic B: Basic+4Way C: Plasma Filter D: Plasma Filter+4 Way E: Tele+LCD F: Tele+LCD+Nano plasma+4Way G: Nano Plasma F+(A/changeove)+A/clean+Low A H: Nano Plasma F+(A/changeove)+A/clean+4way+Low A I: Tele+LED+4way J: Internet K: Plasma F+4Way+Oxygen generator L: Nano Plasma F+(A/changeove)+A/clean M: Nano Plasma F+(A/changeove)+A/clean+4way N: Nano Plasma F+(A/changeove)+A/clean+PTC P: Nano Plasma F+(A/changeove)+Autoclean+4way+PTC Q: Nano Plasma F+(A/changeove)+A/clean+4way+Low A+PTC R: Negative Ion+A/Clean S: (Nano)Plasma+Negative Ion+A/Clean T: 4way+(Nano)Plasma F+Negative Ion+A/Clean U: Nano Plasma F+4Way+(A/changeove)+A/clean+Oxygen generator
11	Serial No.	1~9	LG Model Development Serial No.

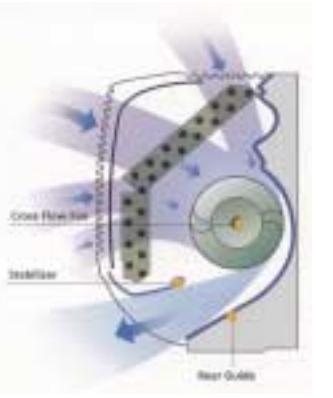
Note: • Identification Rule 1 is old one.
• Identification Rule 2 is new one.

Wall Mounted Type

- Innovative Quiet Operation
- CHAOS Swing
- JET Cool
- Healthy Dehumidification
- Triple Deodorizing Filter
- (Nano) Plasma Air Purifying Filter
- Auto Clean System
- Auto Changeover
- Low Ambient Control
- Energy Saving Gold Fin
- Plasma heat Exchanger
- Auto Restart Operation
- Hot Start Function
- Time delay Relay
- Tele Control

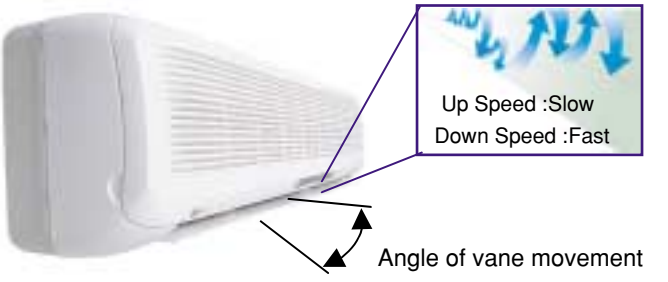
Innovative Quiet Operation

To provide a comfortable, pleasant and well balanced environment, LG air conditioners utilize a streamlined air fan and a unique design which create smooth air flow from the air conditioner so that it operates under the lowest noise level. The cross flow fan, stabilizer, and rear guide which are the causes of noise, have been redesigned by hydraulic engineering. The number of revolutions has been decreased while increasing the amount of friction has been decreased providing the most quiet air conditioners in the world.



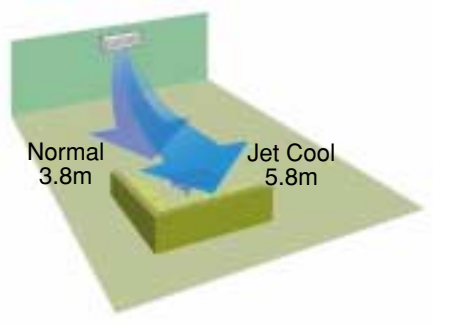
CHAOS Swing

The most pleasant air flow for the human body can be found within nature. Countless data and verification resulted in the application of the new CHAOS theory to LG Air conditioners.
Wind-up effect is controlled by vane angle and speed to evenly distribute nature-like air throughout the room. This function analyzes the characteristic of air flow distribution and creates the pleasant feeling of natural wind.



JET Cool

Jet Cooling function is for quick cooling. In this mode, strong and cool air is blown at high speeds for 30 minutes until the room temperature reaches to 18°C.



Healthy Dehumidification

The hot and humid air has a tendency to rise by convection. Healthy Dehumidification

optimizes this algorithm to keep an optimum humidity without feeling cold in indoor place.

Triple Deodorizing Filter

- Deodorizing efficiency

  : 10% up compared used Deodorization Filter

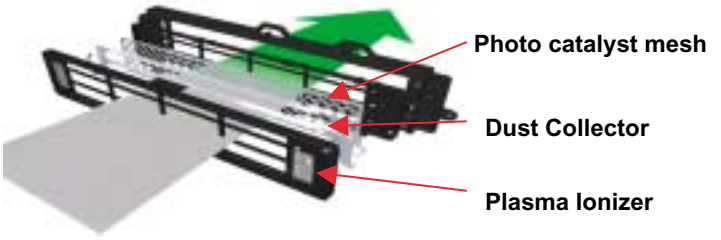
■ Composition of Triple Deodorizing Filter

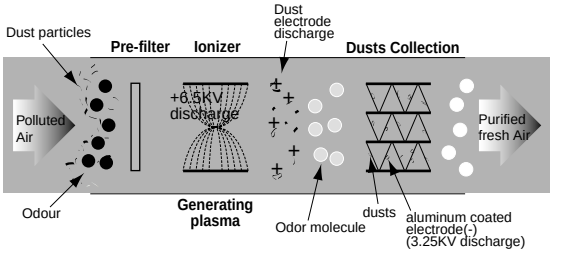
Nasty smell Deodorizing	Formaldehyde Deodorizing	V.O.C. Deodorizing

Plasma Air Purifying Filter

The PLASMA Air Purifying Function not only removes microscopic contaminants and dust, but it also removes house mites, pollen, and pet fur to help prevent allergic diseases like asthma.

With a filter that can be used over and over again by simply washing with water, you can enjoy clean fresh air without having to worry about changinf the filter every two years as in the past and save costs.



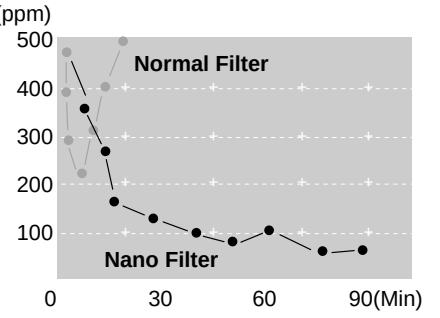


• Effect of Carbon Nano Ball

Deodorizing efficieny : 8~10 times compared to conventional carbon filter.

• What is Carbon Nano Ball?

Nano(1/1Bil) ball structure,(200~500nm) consisted of carbon, is adopted as deodorizing material first in the world.



Auto Clean System

After using air-conditioner, “Auto Clean’ makes the inner part of Air conditioner dry
For Cooling Only models, it lasts for 30 min, for Heat Pump models for 16 min .
It removes moisture and mould, so you can enjoy odor-free air and save time to clean up.

(Cooling Only) 

(Heat Pump) 

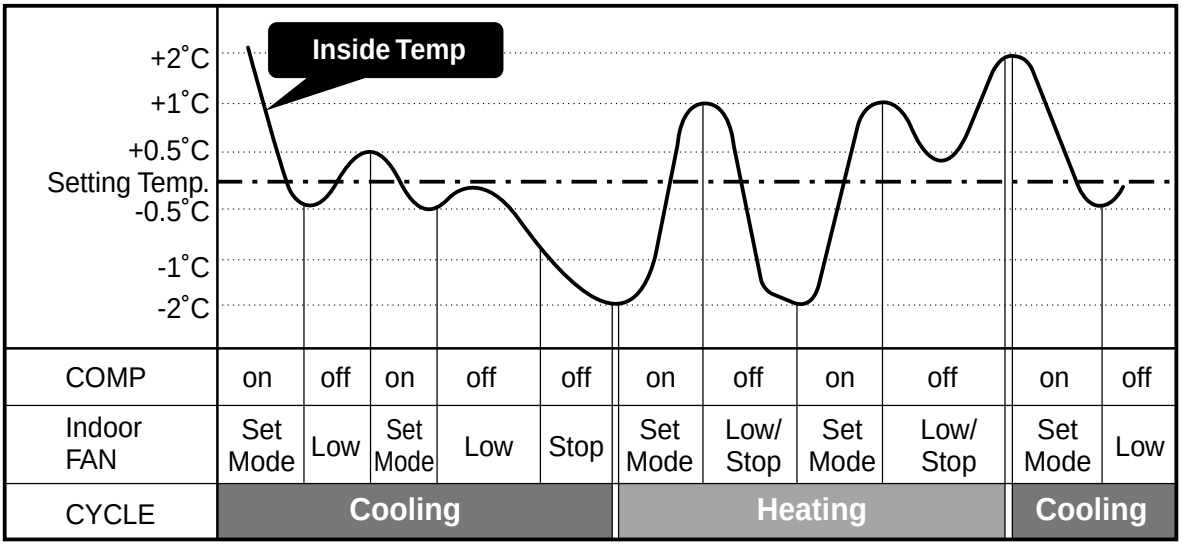
Fan → Reverse Cycle → Fan

After Cooling Operation, Start “Auto-Clean” automatically

In a few minutes “Auto Clean” Makes the inner part of Air conditioner be Dry

Auto Changeover :

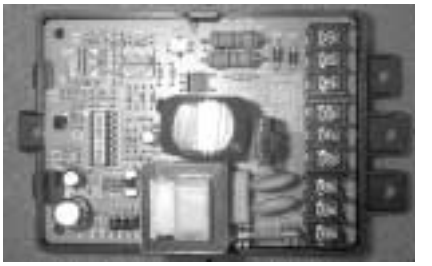
- While starting the unit it first senses the indoor temperature & starts the unit either in the cooling or in heating mode, depending upon the indoor temperature. Range of operation is Setting Temp.± 2°C.



COMP	on	off	on	off	off	on	off	on	off	on	off
Indoor FAN	Set Mode	Low	Set Mode	Low	Stop	Set Mode	Low/ Stop	Set Mode	Low/ Stop	Set Mode	Low
CYCLE	Cooling					Heating				Cooling	

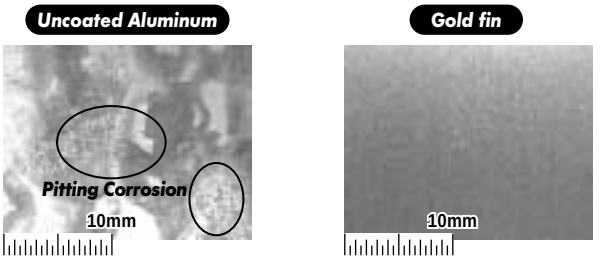
Low Ambient Control:

- If the outdoor temperature drops below certain temperature, liquid back to the compressor is prevented by reducing outdoor fan speed. It can prevent frosting of evaporator and keep cooling operation on.



Energy Saving Gold Fin :

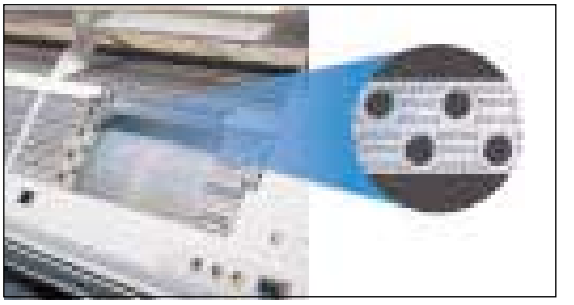
- Heat Exchanger fins are coated with anticorrosive & hydrophilic layers. It prevents the corrosion of heat exchanger. Fins remain as new even after long time of operation and maintains efficiency of heat exchanger. It also saves power & maintenance Cost.



Salt Spray Test Result : After 360 hours
[Test Standard: ASTM B-117, KS D 9502]

Plasma Heat Exchanger:

- LG has developed the new heat exchanger which imparts no-aging qualities to the surface of the fin. LG is the first to develolop Plasma Heat Exchanger. Saves energy & Reduces noise.

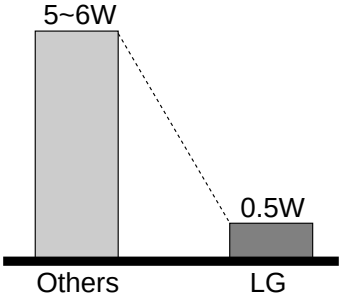


Auto Restart Operation :

- When there is electricity failure to the unit. After resumption of the power, unit will start in the same mode as prior to the power failure. Memorized condition are on / off condition, operating mode (cooling/heating), set temperature and fan speed.The unit will memorize the above conditions and start with same memorized condition.

Hot Start Function :

- During starting of the unit in the heating mode it prevents cold air blow from the unit.It starts the indoor fan only after indoor unit pipe temperature reaches a preset value(28°C). When indoor unit pipe temperature has reached 28°C, then for initial 1 minute the indoor fan runs at low speed and after that at the set fan speed.



Time Delay Relay :

- It delays restarting of the compressor by three minutes thereby preventing damage to the compressor.

Tele Control :

- It provides you ease of control. Air conditioner can be switched on/off by the telephone. It saves time & energy.

In Advance by Telephone Before Coming Home...

In case of Going out Without Turning off the Air Conditioner...

Models		Unit	LS-C082QPL0	LS-C112RPM0	LS-C122RGB0	LS-H122RNA0
Cooling Capacity		kcal/h.(W)	2,016(2,344)	3,665(3,100)	3,024(3,516)	3,024(3,516)
		Btu/h.	8,000	10,577	12,000	12,000
Heating Capacity		kcal/h.(W)	-	-	-	-
		Btu/h.	-	-	-	12,500
Power Input	Cooling	W	650	1,040	1,220	1,220
	Heating	W	-	-	-	1,220
Running Current	Cooling	A	3.0	4.7	5.9	5.9
	Heating	A	-	-	-	-
Starting Current	Cooling	A	18	25	24	24
	Heating	A	-	-	-	-
EER		kcal/h.W(W/W)	3.20(3.60)	3.52(3.0)	2.52(2.93)	2.52(2.93)
		Btu/h.W	12.00	10	9.84	9.84
COP		W/W	-	-	-	3.00
Power Supply		Ø,V,Hz	1,220,60	1,220,60	1,220,60	1,220,60
Power Factor		%	-	-	94	94
Air Circulation	Indoor,Max	m^3/min(CFM)	5.5(194)	7.6(268)	8.1(286)	8.1(286)
	Outdoor,Max	m^3/min(CFM)	25(883)	34(1,200)	30(1,059)	30(1,059)
Moisture Removal		l/h(pts/h.)	1.0(2.13)	1.4(2.98)	1.4(2.98)	1.4(2.98)
Noise Level (Sound Pressure,1m)	Indoor,High	dB(A)±3	32	34	36	36
	Med.	dB(A)±3	30	32	34	34
	Low	dB(A)±3	28	30	29	29
	Outdoor,Max	dB(A)±3	47	47	46	46
Features	Temperature Control		Thermistor	Thermistor	Thermistor	Thermistor
	Plasma Filter		-	-	-	-
	Nano Plasma Filter		Yes	Yes	-	-
	Deodorizing Filter		Yes	Yes	Optional	Optional
	Auto Clean		Yes	Yes	-	-
	CHAOS Wind(Auto Wind)		Yes	Yes	Yes	Yes
	Air Diflection(4-WAY:Optional)		4-Way	4-Way	4-Way	4-Way
	Steps, Fan/Cool		3/4	3/4	3/4	3/4
	Airflow Direction Contorl(up&down)		Auto	Auto	Auto	Auto
	Airflow Direction Contorl(left&right)		Auto	Auto	Auto	Manual
	Remocon Type		Wireless LCD	Wireless LCD	Wireless LCD	Wireless LCD
	Setting Temperature Range	Cool	18-30	18-30	18-30	18-30
		Heat	-	-	-	16-30
	Temperature Increment		1	1	1	1
	Auto Operation (Micom Control)		Yes	Yes	Yes	Yes
	Auto Changeover (Micom Control)		-	-	-	-
	Self Diagnosis		Yes	Yes	Yes	Yes
	Timer		24Hr,On/Off	24Hr,On/Off	24Hr,On/Off	24Hr,On/Off
	Sleep Operation		Yes	Yes	Yes	Yes
	Soft Dry Operation		Yes	Yes	Yes	Yes
	Restart Delay(minute)		3	3	3	3
	Deice Control(Defrost)		-	-	-	Yes
	Hot Start		-	-	-	Yes
	Jet Cool		Yes	Yes	Yes	Yes
Special Function			-	-	-	-
Refrigerant(R-22) Charge		g(oz)	630(22.2)	550(19.4)	860(30.3)	860(30.3)
Compressor	Type		Rotary	Rotary	Rotary	Rotary
	Model		QA104GAD	QK141KBD	2PS174H2AB02	2PS174H2AB02
	Maker		LG	LG	MATSUSHITA	MATSUSHITA
	Capacity	kcal/h.(Btu/h.)	1,774(7,040)	9,800	3,009(11,942)	3,009(11,942)
	Motor Type		PSC	PSC	PSC	PSC
	Motor Input	W	661	907	1,195	1,195
	Oil Type		Suniso 4GSD	Suniso 4GSI	Suniso 4GDID	Suniso 4GDID
	Oil Charge	g	350	350	350	350
	O.L.P Name		MRA98854-9088	MRA12130-12026	MRA99885-9091	MRA99885-9091
Blower Motor	Input	W	27	37	37	37
	Output	W	7.6	10	10	10
Fan Motor	Model		-	AMR029B2 BDD	OBM-2010B1	OBM-2010B1
	Motor Type		AC Induction	AC Induction	AC Induction	AC Induction
	Motor Input	W	42	89.5	50	50
	Motor Output	W	18.7	30	23.5	23.5
Circuit Breaker		A	15	15	15	15
Power Cord		AWG#:P*mm^2	16:3*1.0	16:3*1.0	16:3*1.0	16:3*1.0
Connecting Cable		AWG#:P*mm^2	16:3*1.0	16:3*1.0	16:3*1.0	16:3*1.0:2*0.75
Connecting Tube (Ø. Socket Flare)	Liquid Side	mm(in)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas Side	mm(in)	9.52(3/8)	9.52(3/8)	12.7(1/2)	12.7(1/2)
	Length,std	m(in)	5(197)	4(157)	7.5(295)	5(197)
Drain Hose	(O.D , I.D)	mm(in)	21.5,16(0.85,0.63)	21.5,16(0.85,0.63)	21.5,16(0.85,0.63)	21.5,16(0.85,0.63)
Dimension	Indoor	mm	824*260*155	900*285*156	900*285*156	900*285*156
		inch	32.4*10.2*6.1	35.4*11.2*6.1	35.4*11.2*6.1	35.4*11.2*6.1
	Outdoor	mm	564*525*265	684*624*270	770*540*245	770*540*245
		inch	22.2*20.7*10.4	26.9*24.6*10.6	30.3*21.3*9.6	30.3*21.3*9.6
Net Weight	Indoor	kg(lbs)	7(15.4)	9(19.8)	8(17.6)	8(17.6)
	Outdoor	kg(lbs)	23(50.7)	28(61.7)	34(75.0)	34(75.0)
Stuffing Quantity	With S/Parts	20/40ft	127/267	93/200	104/214	104/214
	Without S/Parts	20/40ft	128/267	94/202	105/216	105/216

Models		Unit	LS-H122RGL0	LS-C142RGB0	LS-C142RGL0	LS-C142RGM0
Cooling Capacity		kcal/h.(W)	3,024(3,516)	3,528(4,103)	3,528(4,103)	3,528(4,103)
		Btu/h.	12,000	14,000	14,000	14,000
Heating Capacity		kcal/h.(W)	-	-	-	-
		Btu/h.	12,500	-	-	-
Power Input	Cooling	W	1,220	1,220	1,220	1,220
	Heating	W	1,220	-	-	-
Running Current	Cooling	A	5.9	5.6	5.6	5.6
	Heating	A	-	-	-	-
Starting Current	Cooling	A	24	24	24	24
	Heating	A	-	-	-	-
EER		kcal/h.W(W/W)	2.52(2.93)	2.89(2.36)	2.89(2.36)	2.89(2.36)
		Btu/h.W	9.84	11.47	11.47	11.47
COP		W/W	3.00	-	-	-
Power Supply		Ø,V,Hz	1,220,60	1,220,60	1,220,60	1,220,60
Power Factor		%	94	96	96	96
Air Circulation	Indoor,Max	m^3/min(CFM)	8.1(286)	8.3(293)	8.3(293)	8.3(293)
	Outdoor,Max	m^3/min(CFM)	30(1,059)	30(1,059)	30(1,059)	30(1,059)
Moisture Removal		l/h(pts/h.)	1.4(2.98)	1.4(2.98)	1.4(2.98)	1.4(2.98)
Noise Level (Sound Pressure,1m)	Indoor,High	dB(A)±3	36	36	36	36
	Med.	dB(A)±3	34	34	34	34
	Low	dB(A)±3	29	29	29	29
	Outdoor,Max	dB(A)±3	46	46	46	46
Features	Temperature Control		Thermistor	Thermistor	Thermistor	Thermistor
	Plasma Filter		-	-	-	-
	Nano Plasma Filter		Yes	-	Yes	Yes
	Deodorizing Filter		Yes	Optional	Yes	Yes
	Auto Clean		-	-	Yes	Yes
	CHAOS Wind(Auto Wind)		Yes	Yes	Yes	Yes
	Air Diflection(4-WAY:Optional)		4-Way	4-Way	4-Way	4-Way
	Steps, Fan/Cool		3/4	3/4	3/4	3/4
	Airflow Direction Contorl(up&down)		Auto	Auto	Auto	Auto
	Airflow Direction Contorl(left&right)		Manual	Auto	Manual	Auto
	Remocon Type		Wireless LCD	Wireless LCD	Wireless LCD	Wireless LCD
	Setting Temperature Range	Cool	18-30	18-30	18-30	18-30
		Heat	16-30	-	-	-
	Temperature Increment		1	1	1	1
	Auto Operation (Micom Control)		-	Yes	Yes	Yes
	Auto Changeover (Micom Control)		Yes	-	-	-
	Self Diagnosis		Yes	Yes	Yes	Yes
	Timer		24Hr,On/Off	24Hr,On/Off	24Hr,On/Off	24Hr,On/Off
	Sleep Operation		Yes	Yes	Yes	Yes
	Soft Dry Operation		Yes	Yes	Yes	Yes
	Restart Delay(minute)		3	3	3	3
	Deice Control(Defrost)		Yes	-	-	-
	Hot Start		Yes	-	-	-
	Jet Cool		Yes	Yes	Yes	Yes
Special Function			-	-	-	-
Refrigerant(R-22) Charge		g(oz)	860(30.3)	1000(35.27)	1000(35.27)	1000(35.27)
Compressor	Type		Rotary	Rotary	Rotary	Rotary
	Model		2PS174H2AB02	QK185KBA	QK185KBA	QK185KBA
	Maker		MATSUSHITA	LG	LG	LG
	Capacity	kcal/h.(Btu/h.)	3,009(11,942)	3276(13000)	3276(13000)	3276(13000)
	Motor Type		PSC	PSC	PSC	PSC
	Motor Input	W	1,195	1215	1215	1215
	Oil Type		Suniso 4GDID	Suniso 4GSI	Suniso 4GSI	Suniso 4GSI
	Oil Charge	g	350	350	350	350
	O.L.P Name		MRA99885-9091	MRA12070-12027	MRA12070-12027	MRA12070-12027
Blower Motor	Input	W	37	45	45	45
	Output	W	10	15	15	15
Fan Motor	Model		OBM-2010B1	AMR029B2	AMR029B2	AMR029B2
	Motor Type		AC Induction	AC Induction	AC Induction	AC Induction
	Motor Input	W	50	89.5	89.5	89.5
	Motor Output	W	23.5	30	30	30
Circuit Breaker		A	15	15	15	15
Power Cord		AWG#:P*mm^2	16:3*1.0	16:3*1.0	16:3*1.0	16:3*1.0
Connecting Cable		AWG#:P*mm^2	16:3*1.0:2*0.75	16:3*1.0	16:3*1.0	16:3*1.0
Connecting Tube (Ø. Socket Flare)	Liquid Side	mm(in)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas Side	mm(in)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)
	Length,std	m(in)	5(197)	4(157)	4(157)	4(157)
Drain Hose	(O.D , I.D)	mm(in)	21.5,16(0.85,0.63)	21.5,16(0.85,0.63)	21.5,16(0.85,0.63)	21.5,16(0.85,0.63)
Dimension	Indoor	mm	900*285*156	900*285*156	900*285*156	900*285*156
		inch	35.4*11.2*6.1	35.4*11.2*6.1	35.4*11.2*6.1	35.4*11.2*6.1
	Outdoor	mm	770*540*245	684*624*270	684*624*270	684*624*270
		inch	30.3*21.3*9.6	26.9*24.5*10.6	26.9*24.5*10.6	26.9*24.5*10.6
Net Weight	Indoor	kg(lbs)	8(17.6)	9(19.8)	9(19.8)	9(19.8)
	Outdoor	kg(lbs)	34(75.0)	28(61.7)	28(61.7)	28(61.7)
Stuffing Quantity	With S/Parts	20/40ft	104/214	93/200	93/200	93/200
	Without S/Parts	20/40ft	105/216	94/202	94/202	94/202

Models		**Unit**	LS-C182TLB2	LS-C182TNA0	LS-C182TGB0	LS-C182TGU0
Cooling Capacity		kcal/h.(W)	4,536(5,275)	4,536(5,275)	4,536(5,275)	4,536(5,275)
		Btu/h.	18,000	18,000	18,000	18,000
Heating Capacity		kcal/h.(W)	-	-	-	-
		Btu/h.	-	-	-	-
Power Input	Cooling	W	1,900	1,900	1,900	1,900
	Heating	W	-	-	-	-
Running Current	Cooling	A	9.1	9.1	9.1	9.1
	Heating	A	-	-	-	-
Starting Current	Cooling	A	-	-	-	-
	Heating	A	-	-	-	-
EER		kcal/h.W(W/W)	2.39(2.78)	2.39(2.78)	2.39(2.78)	2.39(2.78)
		Btu/h.W	9.47	9.47	9.47	9.47
COP		W/W	-	-	-	-
Power Supply		Ø,V,Hz	1,220,60	1,220,60	1,220,60	1,220,60
Power Factor		%	95	95	95	95
Air Circulation	Indoor,Max	m^3/min(CFM)	12.5(441)	12.5(441)	12.5(441)	12.5(441)
	Outdoor,Max	m^3/min(CFM)	34(1,200)	34(1,200)	34(1,200)	34(1,200)
Moisture Removal		l/h(pts/h.)	2.2(4.7)	2.2(4.7)	2.2(4.7)	2.2(4.7)
Noise Level (Sound Pressure,1m)	Indoor,High	dB(A)±3	44	44	44	44
	Med.	dB(A)±3	40	40	40	40
	Low	dB(A)±3	36	36	36	36
	Outdoor,Max	dB(A)±3	56	56	56	56
Features	Temperature Control		Thermistor	Thermistor	Thermistor	Thermistor
	Plasma Filter		-	-	-	-
	Nano Plasma Filter		-	-	-	Yes
	Deodorizing Filter		Optional	Optional	Optional	-
	Auto Clean		-	-	-	Yes
	CHAOS Wind(Auto Wind)		Yes	Yes	Yes	Yes
	Air Diflection(4-WAY:Optional)		4-Way	4-Way	4-Way	4-Way
	Steps, Fan/Cool		3/4	3/4	3/4	3/4
	Airflow Direction Contorl(up&down)		Auto	Auto	Auto	Auto
	Airflow Direction Contorl(left&right)		Auto	Manual	Auto	Auto
	Remocon Type		Wireless LCD	Wireless LCD	Wireless LCD	Wireless LCD
	Setting Temperature Range	Cool	18-30	18-30	18-30	18-30
		Heat	-	-	-	-
	Temperature Increment		1	1	1	1
	Auto Operation (Micom Control)		Yes	Yes	Yes	Yes
	Auto Changeover (Micom Control)		-	-	-	-
	Self Diagnosis		Yes	Yes	Yes	Yes
	Timer		24Hr,On/Off	24Hr,On/Off	24Hr,On/Off	24Hr,On/Off
	Sleep Operation		Yes	Yes	Yes	Yes
	Soft Dry Operation		Yes	Yes	Yes	Yes
	Restart Delay(minute)		3	3	3	3
	Deice Control(Defrost)		-	-	-	-
	Hot Start		-	-	-	-
	Jet Cool		Yes	Yes	Yes	Yes
Special Function			-	-	-	Oxygen Generator
Refrigerant(R-22) Charge		g(oz)	1,180(41.6)	1,180(41.6)	1,180(41.6)	1,180(41.6)
Compressor	Type		Rotary	Rotary	Rotary	Rotary
	Model		QJ258KEA	QJ258KEA	QJ258KEA	QJ258KEA
	Maker		LG	LG	LG	LG
	Capacity	kcal/h.(Btu/h.)	4,612(18,300)	4,612(18,300)	4,612(18,300)	4,612(18,300)
	Motor Type		PSC	PSC	PSC	PSC
	Motor Input	W	1,777	1,777	1,777	1,777
	Oil Type		Suniso 4GSI	Suniso 4GSI	Suniso 4GSI	Suniso 4GSI
	Oil Charge	g	500	500	500	500
	O.L.P Name		-	-	-	-
Blower Motor	Input	W	54	54	54	54
	Output	W	15.7	15.7	15.7	15.7
Fan Motor	Model		AMR029B4	AMR029B4	AMR029B4	AMR029B4
	Motor Type		AC Induction	AC Induction	AC Induction	AC Induction
	Motor Input	W	100	100	100	100
	Motor Output	W	45	45	45	45
Circuit Breaker		A	15	15	15	15
Power Cord		AWG#:P*mm^2	14:3*1.5	14:3*1.5	14:3*1.5	14:3*1.5
Connecting Cable		AWG#:P*mm^2	14:3*1.5	14:3*1.5	14:3*1.5	14:3*1.5
Connecting Tube (Ø. Socket Flare)	Liquid Side	mm(in)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas Side	mm(in)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)
	Length,std	m(in)	7.5(295)	7.5(295)	7.5(295)	7.5(295)
Drain Hose	(O.D , I.D)	mm(in)	21.5,16(0.85,0.63)	21.5,16(0.85,0.63)	21.5,16(0.85,0.63)	21.5,16(0.85,0.63)
Dimension	Indoor	mm	1090*314*172	1090*314*172	1090*314*172	1090*314*172
		inch	42.9*12.4*6.8	42.9*12.4*6.8	42.9*12.4*6.8	42.9*12.4*6.8
	Outdoor	mm	801*555*262	801*555*262	801*555*262	801*555*262
		inch	31.5*21.9*10.3	31.5*21.9*10.3	31.5*21.9*10.3	31.5*21.9*10.3
Net Weight	Indoor	kg(lbs)	12(26.5)	12(26.5)	12(26.5)	12(26.5)
	Outdoor	kg(lbs)	38(83.7)	38(83.7)	38(83.7)	38(83.7)
Stuffing Quantity	With S/Parts	20/40ft	76/158	76/158	76/158	76/158
	Without S/Parts	20/40ft	85/186	85/186	85/186	85/186

Models		Unit	LS-H182TNA0	LS-H182TGU0	LS-C212TGB0	LS-C212TGM0
Cooling Capacity		kcal/h.(W)	4,536(5,275)	4,536(5,275)	5,073(5,900)	5,073(5,900)
		Btu/h.	18,000	18,000	20,131	20,131
Heating Capacity		kcal/h.(W)	4788(5568)	4788(5568)	-	-
		Btu/h.	19,000	19,000	-	-
Power Input	Cooling	W	1,860	1,860	2,160	2,160
	Heating	W	1,860	1,860	-	-
Running Current	Cooling	A	8.5	8.5	9.8	9.8
	Heating	A	8.5	8.5	-	-
Starting Current	Cooling	A	-	-	45	45
	Heating	A	-	-	-	-
EER		kcal/h.W(W/W)	2.44(2.84)	2.44(2.84)	2.35(2.73)	2.35(2.73)
		Btu/h.W	9.68	9.68	9.31	9.31
COP		W/W	2.99	2.99	-	-
Power Supply		Ø,V,Hz	1,220,60	1,220,60	1,220,60	1,220,60
Power Factor		%	99	99	98	98
Air Circulation	Indoor,Max	m^3/min(CFM)	12.5(441)	12.5(441)	13.0(459)	13.0(459)
	Outdoor,Max	m^3/min(CFM)	34(1,200)	34(1,200)	42(1,483)	42(1,483)
Moisture Removal		l/h(pts/h.)	2.2(4.7)	2.2(4.7)	2.5(5.32)	2.5(5.32)
Noise Level (Sound Pressure,1m)	Indoor,High	dB(A)±3	44	44	43	43
	Med.	dB(A)±3	40	40	40	40
	Low	dB(A)±3	37	37	37	37
	Outdoor,Max	dB(A)±3	54	54	54	54
Features	Temperature Control		Thermistor	Thermistor	Thermistor	Thermistor
	Plasma Filter		-	-	-	-
	Nano Plasma Filter		-	Yes	-	Yes
	Deodorizing Filter		Optional	-	Optional	-
	Auto Clean		-	Yes	-	Yes
	CHAOS Wind(Auto Wind)		Yes	Yes	Yes	Yes
	Air Diflection(4-WAY:Optional)		4-Way	4-Way	4-Way	4-Way
	Steps, Fan/Cool		3/4	3/4	3/4	3/4
	Airflow Direction Contorl(up&down)		Auto	Auto	Auto	Auto
	Airflow Direction Contorl(left&right)		Manual	Auto	Auto	Auto
	Remocon Type		Wireless LCD	Wireless LCD	Wireless LCD	Wireless LCD
	Setting Temperature Range	Cool	18-30	18-30	18-30	18-30
		Heat	16-30	16-30	-	-
	Temperature Increment		1	1	1	1
	Auto Operation (Micom Control)		Yes	-	Yes	Yes
	Auto Changeover (Micom Control)		-	Yes	-	-
	Self Diagnosis		Yes	Yes	Yes	Yes
	Timer		24Hr,On/Off	24Hr,On/Off	24Hr,On/Off	24Hr,On/Off
	Sleep Operation		Yes	Yes	Yes	Yes
	Soft Dry Operation		Yes	Yes	Yes	Yes
	Restart Delay(minute)		3	3	3	3
	Deice Control(Defrost)		Yes	Yes	-	-
	Hot Start		Yes	Yes	-	-
	Jet Cool		Yes	Yes	Yes	Yes
Special Function			-	Oxygen Generator	-	-
Refrigerant(R-22) Charge		g(oz)	1,450(51.1)	1,450(51.1)	930(32.8)	930(32.8)
Compressor	Type		Rotary	Rotary	Rotary	Rotary
	Model		QJ278KCE	QJ278KCE	QJ278KE	QJ278KE
	Maker		LG	LG	LG	LG
	Capacity	kcal/h.(Btu/h.)	4,939(19,600)	4,939(19,600)	4,891(19,410)	4,891(19,410)
	Motor Type		PSC	PSC	PSC	PSC
	Motor Input	W	1,867	1,867	1,820	1,820
	Oil Type		Suniso 4GSI	Suniso 4GSI	Suniso 4GSI	Suniso 4GSI
	Oil Charge	g	500	500	-	-
	O.L.P Name		-	-	-	-
Blower Motor	Input	W	54	54	57.6	57.6
	Output	W	15.7	15.7	19	19
Fan Motor	Model		AMR029B4	AMR029B4	IC-1640LG28F	IC-1640LG28F
	Motor Type		AC Induction	AC Induction	AC Induction	AC Induction
	Motor Input	W	100	100	140	140
	Motor Output	W	45	45	55	55
Circuit Breaker		A	15	15	20	20
Power Cord		AWG#:P*mm^2	14:3*1.5	14:3*1.5	13:3*2.0	13:3*2.0
Connecting Cable		AWG#:P*mm^2	14:3*1.5	14:3*1.5	13:3*2.0	13:3*2.0
Connecting Tube (Ø. Socket Flare)	Liquid Side	mm(in)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas Side	mm(in)	12.7(1/2)	12.7(1/2)	15.88(5/8)	15.88(5/8)
	Length,std	m(in)	7.5(295)	7.5(295)	5(197)	5(197)
Drain Hose	(O.D , I.D)	mm(in)	21.5,16(0.85,0.63)	21.5,16(0.85,0.63)	21.5,16(0.85,0.63)	21.5,16(0.85,0.63)
Dimension	Indoor	mm	1090*314*172	1090*314*172	1090*314*172	1090*314*172
		inch	42.9*12.4*6.8	42.9*12.4*6.8	42.9*12.4*6.8	42.9*12.4*6.8
	Outdoor	mm	801*555*262	801*555*262	870*655*320	870*655*320
		inch	31.5*21.9*10.3	31.5*21.9*10.3	34.3*25.8*12.6	34.3*25.8*12.6
Net Weight	Indoor	kg(lbs)	12(26.5)	12(26.5)	12(26.5)	12(26.5)
	Outdoor	kg(lbs)	38(83.7)	38(83.7)	58(127.9)	58(127.9)
Stuffing Quantity	With S/Parts	20/40ft	76/158	76/158	62/131	62/131
	Without S/Parts	20/40ft	85/186	85/186	63/132	63/132

Models		Unit	LS-C242TNA0	LS-C242TGU0	LS-H242TNA0
Cooling Capacity		kcal/h.(W)	6,048(7,034)	6,048(7,034)	6,048(7,033)
		Btu/h.	24,000	24,000	24,000
Heating Capacity		kcal/h.(W)	-	-	6,048(7,033)
		Btu/h.	-	-	24,000
Power Input	Cooling	W	2,350	2,350	2,525
	Heating	W	-	-	2,525
Running Current	Cooling	A	11.0	11.0	12.0
	Heating	A	-	-	12
Starting Current	Cooling	A	-	-	53
	Heating	A	-	-	53
EER		kcal/h.W(W/W)	2.57(2.99)	2.57(2.99)	2.40(2.79)
		Btu/h.W	10.21	10.21	9.50
COP		W/W	-	-	2.79
Power Supply		Ø,V,Hz	1,220,60	1,220,60	1,220,60
Power Factor		%	97	97	98
Air Circulation	Indoor,Max	m^3/min(CFM)	14.9(526)	14.9(526)	14(494)
	Outdoor,Max	m^3/min(CFM)	42(1483)	42(1483)	45(1,589)
Moisture Removal		l/h(pts/h.)	2.88(6.13)	2.88(6.13)	3.1(6.61)
Noise Level (Sound Pressure,1m)	Indoor,High	dB(A)±3	46	46	46
	Med.	dB(A)±3	43	43	43
	Low	dB(A)±3	39	39	40
	Outdoor,Max	dB(A)±3	57	57	57
Features	Temperature Control		Thermistor	Thermistor	Thermistor
	Plasma Filter		-	-	-
	Nano Plasma Filter		-	Yes	-
	Deodorizing Filter		Yes	-	Optional
	Auto Clean		Yes	Yes	-
	CHAOS Wind(Auto Wind)		Yes	Yes	Yes
	Air Diflection(4-WAY:Optional)		4-Way	4-Way	4-Way
	Steps, Fan/Cool		3/4	3/4	3/4
	Airflow Direction Contorl(up&down)		Auto	Auto	Auto
	Airflow Direction Contorl(left&right)		Manual	Auto	Manual
	Remocon Type		Wireless LCD	Wireless LCD	Wireless LCD
	Setting Temperature Range	Cool	18-30	18-30	18-30
		Heat	-	-	16-30
	Temperature Increment		1	1	1
	Auto Operation (Micom Control)		Yes	Yes	Yes
	Auto Changeover (Micom Control)		-	-	-
	Self Diagnosis		Yes	Yes	Yes
	Timer		24Hr,On/Off	24Hr,On/Off	24Hr,On/Off
	Sleep Operation		Yes	Yes	Yes
	Soft Dry Operation		Yes	Yes	Yes
	Restart Delay(minute)		3	3	3
	Deice Control(Defrost)		-	-	Yes
	Hot Start		-	-	Yes
	Jet Cool		Yes	Yes	Yes
Special Function			-	Oxygen Generator	-
Refrigerant(R-22) Charge		g(oz)	1,200(42.3)	1,200(42.3)	1,600(56.4)
Compressor	Type		Rotary	Rotary	Rotary
	Model		QP348KD24B	QP348KD24B	2J35S236A1B
	Maker		LG	LG	MATSUSHITA
	Capacity	kcal/h.(Btu/h.)	6476(25,700)	6476(25,700)	7,765(26,500)
	Motor Type		PSC	PSC	PSC
	Motor Input	W	2,424	2,424	2,405
	Oil Type		Suniso 4GSI/ ATMOS M60	Suniso 4GSI/ ATMOS M60	Suniso 4GD
	Oil Charge	g	700	700	1,130
	O.L.P Name		-	-	-
Blower Motor	Input	W	87	87	87
	Output	W	35	35	35
Fan Motor	Model		IC-1640LG28T	IC-1640LG28T	AMR071B5
	Motor Type		AC Induction	AC Induction	AC Induction
	Motor Input	W	181	181	151
	Motor Output	W	76.5	76.5	75
Circuit Breaker		A	20	20	20
Power Cord		AWG#:P*mm^2	12:3*2.5	12:3*2.5	12:3*2.5
Connecting Cable		AWG#:P*mm^2	12:3*2.5	12:3*2.5	12:3*2.5+18:2*0.75
Connecting Tube (Ø. Socket Flare)	Liquid Side	mm(in)	9.52(3/8)	9.52(3/8)	9.52(3/8)
	Gas Side	mm(in)	15.88(5/8)	15.88(5/8)	15.88(5/8)
	Length,std	m(in)	5(197)	5(197)	5(197)
Drain Hose	(O.D , I.D)	mm(in)	21.5,16(0.85,0.63)	21.5,16(0.85,0.63)	21.5,16(0.85,0.63)
Dimension	Indoor	mm	1090*314*172	1090*314*172	1090*314*172
		inch	42.9*12.4*6.8	42.9*12.4*6.8	42.9*12.4*6.8
	Outdoor	mm	840*577*276	840*577*276	870*655*320
		inch	33*22.7*10.8	33*22.7*10.8	34.3*25.8*12.6
Net Weight	Indoor	kg(lbs)	12(26.5)	12(26.5)	12(26.5)
	Outdoor	kg(lbs)	47(103.6)	47(103.6)	65(143.3)
Stuffing Quantity	With S/Parts	20/40ft	76/162	76/162	62/131
	Without S/Parts	20/40ft	77/164	77/164	63/132

Models		Unit	LS-H242TNB0	LS-H242TGU0	LS-C282MLB0
Cooling Capacity		kcal/h.(W)	6,048(7,033)	6,048(7,033)	7,055(8,205)
		Btu/h.	24,000	24,000	28,000
Heating Capacity		kcal/h.(W)	6,048(7,033)	6,048(7,033)	-
		Btu/h.	24,000	24,000	-
Power Input	Cooling	W	2,525	2,525	3,350
	Heating	W	2,525	2,525	-
Running Current	Cooling	A	12.0	12.0	16.0
	Heating	A	12	12	-
Starting Current	Cooling	A	53	53	85
	Heating	A	53	53	-
EER		kcal/h.W(W/W)	2.40(2.79)	2.40(2.79)	2.11(2.45)
		Btu/h.W	9.50	9.50	8.36
COP		W/W	2.79	2.79	-
Power Supply		Ø,V,Hz	1,220,60	1,220,60	1,220,60
Power Factor		%	98	98	97
Air Circulation	Indoor,Max	m^3/min(CFM)	14(494)	14(494)	21(741)
	Outdoor,Max	m^3/min(CFM)	45(1,589)	45(1,589)	58(2,012)
Moisture Removal		l/h(pts/h.)	3.1(6.61)	3.1(6.61)	3.8(8.08)
Noise Level (Sound Pressure,1m)	Indoor,High	dB(A)±3	46	46	49
	Med.	dB(A)±3	43	43	46
	Low	dB(A)±3	40	40	43
	Outdoor,Max	dB(A)±3	57	57	56
Features	Temperature Control		Thermistor	Thermistor	Thermistor
	Plasma Filter		-	-	-
	Nano Plasma Filter		-	Yes	-
	Deodorizing Filter		Optional	-	Optional
	Auto Clean		-	Yes	-
	CHAOS Wind(Auto Wind)		Yes	Yes	Yes
	Air Diflection(4-WAY:Optional)		4-Way	4-Way	4-Way
	Steps, Fan/Cool		3/4	3/4	3/4
	Airflow Direction Contorl(up&down)		Auto	Auto	Auto
	Airflow Direction Contorl(left&right)		Auto	Auto	Auto
	Remocon Type		Wireless LCD	Wireless LCD	Wireless LCD
	Setting Temperature Range	Cool	18-30	18-30	18-30
		Heat	16-30	16-30	-
	Temperature Increment		1	1	1
	Auto Operation (Micom Control)		Yes	-	Yes
	Auto Changeover (Micom Control)		-	Yes	-
	Self Diagnosis		Yes	Yes	Yes
	Timer		24Hr,On/Off	24Hr,On/Off	24Hr,On/Off
	Sleep Operation		Yes	Yes	Yes
	Soft Dry Operation		Yes	Yes	Yes
	Restart Delay(minute)		3	3	3
	Deice Control(Defrost)		Yes	Yes	-
	Hot Start		Yes	Yes	-
	Jet Cool		Yes	Yes	Yes
Special Function			-	Oxygen Generator	-
Refrigerant(R-22) Charge		g(oz)	1,600(56.4)	1,600(56.4)	2,900(102.3)
Compressor	Type		Rotary	Rotary	Recipro
	Model		2J35S236A1B	2J35S236A1B	AWG5532EXN
	Maker		MATSUSHITA	MATSUSHITA	TECUMSEH
	Capacity	kcal/h.(Btu/h.)	7,765(26,500)	7,765(26,500)	7,811(31,000)
	Motor Type		PSC	PSC	PSC
	Motor Input	W	2,405	2,405	3,300
	Oil Type		Suniso 4GD	Suniso 4GD	Suniso 4GDID
	Oil Charge	g	1,130	1,130	1415
	O.L.P Name		-	-	-
Blower Motor	Input	W	87	87	224
	Output	W	35	35	110
Fan Motor	Model		AMR071B5	AMR071B5	OBM-4003P2
	Motor Type		AC Induction	AC Induction	AC Induction
	Motor Input	W	151	151	104
	Motor Output	W	75	75	44
Circuit Breaker		A	20	20	30
Power Cord		AWG#:P*mm^2	12:3*2.5	12:3*2.5	12:3*2.5
Connecting Cable		AWG#:P*mm^2	12:3*2.5+18:2*0.75	12:3*2.5+18:2*0.75	18:4*0.75
Connecting Tube (Ø. Socket Flare)	Liquid Side	mm(in)	9.52(3/8)	9.52(3/8)	9.52(3/8)
	Gas Side	mm(in)	15.88(5/8)	15.88(5/8)	15.88(5/8)
	Length,std	m(in)	5(197)	5(197)	7.5(295)
Drain Hose	(O.D , I.D)	mm(in)	21.5,16(0.85,0.63)	21.5,16(0.85,0.63)	32.5,30(1.27*1.18)
Dimension	Indoor	mm	1090*314*172	1090*314*172	1259*349*205
		inch	42.9*12.4*6.8	42.9*12.4*6.8	49.5*13.7*8
	Outdoor	mm	870*655*320	870*655*320	870*800*320
		inch	34.3*25.8*12.6	34.3*25.8*12.6	34.2*31.4*12.5
Net Weight	Indoor	kg(lbs)	12(26.5)	12(26.5)	21(46.2)
	Outdoor	kg(lbs)	65(143.3)	65(143.3)	75(1650)
Stuffing Quantity	With S/Parts	20/40ft	62/131	62/131	49/107
	Without S/Parts	20/40ft	63/132	63/132	48/105

Models			Unit	LS-C282MLM0	LS-C362NMD0	LS-H362NMD0
Cooling Capacity			kcal/h.(W)	7,055(8,205)	9,071(10,550)	9,071(10,550)
			Btu/h.	28,000	36,000	36,000
Heating Capacity			kcal/h.(W)	-	-	9,071(10,550)
			Btu/h.	-	-	36,000
Power Input	Cooling		W	3,350	3,970	3,970
	Heating		W	-	-	3,970
Running Current	Cooling		A	16.0	19	19
	Heating		A	-	-	19
Starting Current	Cooling		A	85	91	91
	Heating		A	-	-	91
EER			kcal/h.W(W/W)	2.11(2.45)	2.28(2.66)	2.28(2.66)
			Btu/h.W	8.36	9.07	9.07
COP			W/W	-	-	2.66
Power Supply			Ø,V,Hz	1,220,60	1,220,60	1,220,60
Power Factor			%	97	97	97
Air Circulation	Indoor,Max		m^3/min(CFM)	21(741)	26(918)	26(918)
	Outdoor,Max		m^3/min(CFM)	58(2,012)	58(2,048)	58(2,048)
Moisture Removal			l/h(pts/h.)	3.8(8.08)	4.2(8.93)	4.2(8.93)
Noise Level (Sound Pressure,1m)	Indoor,High		dB(A)±3	49	45	50
	Med.		dB(A)±3	46	47	47
	Low		dB(A)±3	43	50	45
	Outdoor,Max		dB(A)±3	56	58	58
Features	Temperature Control			Thermistor	Thermistor	Thermistor
	Plasma Filter			-	Yes	Yes
	Nano Plasma Filter			Yes	-	-
	Deodorizing Filter			Yes	Yes	Yes
	Auto Clean			Yes	Yes	Yes
	CHAOS Wind(Auto Wind)			Yes	Yes	Yes
	Air Diflection(4-WAY:Optional)			4-Way	4-Way	4-Way
	Steps, Fan/Cool			3/4	3/4	3/4
	Airflow Direction Contorl(up&down)			Auto	Auto	Auto
	Airflow Direction Contorl(left&right)			Auto	Auto	Auto
	Remocon Type			Wireless LCD	Wireless LCD	Wireless LCD
	Setting Temperature Range		Cool	18-30	18-30	18-30
			Heat	-	-	16-30
	Temperature Increment			1	1	1
	Auto Operation (Micom Control)			Yes	Yes	Yes
	Auto Changeover (Micom Control)			-	-	-
	Self Diagnosis			Yes	Yes	Yes
	Timer			24Hr,On/Off	24Hr,On/Off	24Hr,On/Off
	Sleep Operation			Yes	Yes	Yes
	Soft Dry Operation			Yes	Yes	Yes
	Restart Delay(minute)			3	3	3
	Deice Control(Defrost)			-	-	Yes
	Hot Start			-	-	Yes
	Jet Cool			Yes	Yes	Yes
Special Function				-	-	-
Refrigerant(R-22) Charge			g(oz)	2,900(102.3)	2,850(100.5)	2,800(98.8)
Compressor	Type			Recipro	Recipro	Recipro
	Model			AWG5532EXN	CR42K6-PFV	CR42K6-PFV
	Maker			TECUMSEH	COPELAND	COPELAND
	Capacity		kcal/h.(Btu/h.)	7,811(31,000)	41,900(16,600)	41,900(16,600)
	Motor Type			PSC	PSC	PSC
	Motor Input		W	3,300	3860	3,860
	Oil Type			Suniso 4GDID	Suniso 3GS	Suniso 3GS
	Oil Charge		g	1415	1,057	1,057
	O.L.P Name			-	-	-
Blower Motor	Input		W	224	84.5	84.5
	Output		W	110	38	38
Fan Motor	Model			OBM-4003P2	AMR032B7	AMR032B7
	Motor Type			AC Induction	AC Induction	AC Induction
	Motor Input		W	104	105	105
	Motor Output		W	44	30	30
Circuit Breaker			A	30	30	30
Power Cord			AWG#:P*mm^2	12:3*2.5	10:3*5.5	10:3*5.5
Connecting Cable			AWG#:P*mm^2	18:4*0.75	18:4*0.75	18:4*0.75
Connecting Tube (Ø. Socket Flare)	Liquid Side		mm(in)	9.52(3/8)	9.52(3/8)	9.52(3/8)
	Gas Side		mm(in)	15.88(5/8)	19.05(3/4)	19.05(3/4)
	Length,std		m(in)	7.5(295)	7.5(295)	7.5(295)
Drain Hose	(O.D , I.D)		mm(in)	32.5,30(1.27*1.18)	32.5,30(1.27*1.18)	32.5,30(1.27*1.18)
Dimension	Indoor		mm	1259*349*205	1499*349*205	1499*349*205
			inch	49.5*13.7*8	49.5*13.7*8	49.5*13.7*8
	Outdoor		mm	870*800*320	790*965*320	790*965*320
			inch	34.2*31.4*12.5	34.2*25.7*12.5	34.2*25.7*12.5
Net Weight	Indoor		kg(lbs)	21(46.2)	25(55.1)	25(55.1)
	Outdoor		kg(lbs)	75(1650)	80(176.4)	80(176.4)
Stuffing Quantity	With S/Parts		20/40ft	49/107	44/95	44/95
	Without S/Parts		20/40ft	48/105	45/96	45/96

Models		Unit	LS-C082ZRL0	LS-C112PBL1	LS-H121P*L0	LS-H182VDC0
Cooling Capacity		kcal/h.(W)	1,848(2.15)	3,023(3,519)	3,024(3,517)	4,536(5,274)
		Btu/h.	7,336	12,000	12000	18,000
Heating Capacity		kcal/h.(W)	-	-	3,024(3,517)	4661(5421)
		Btu/h.	-	-	12000	18,500
Power Input	Cooling	W	720	900	1150	1,700
	Heating	W	-	-	1170	1,900
Running Current	Cooling	A	3.4	4.3	10.1	8
	Heating	A	-	-	10.2	8.5
Starting Current	Cooling	A	15	17	17	52
	Heating	A	-	-	17	52
EER		kcal/h.W(W/W)	2.56(2.99)	3.35(3.91)	3.35(3.91)	2.7(3.1)
		Btu/h.W	10.2	13.3	10.4	10.58
COP		W/W	-	-	3.0	2.85
Power Supply		Ø,V,Hz	1,220,60	1,220,60	1,115,60	1,220,60
Power Factor		%	95.00	95.14	99.00	96.59
Air Circulation	Indoor,Max	m^3/min(CFM)	6.5(229)	7(247)	9(317)	12(424)
	Outdoor,Max	m^3/min(CFM)	24(847)	26(918)	27(935)	42(1483)
Moisture Removal		l/h(pts/h.)	1.0(2.13)	1.2(2.5)	1.5(2.8)	1.8(3.8)
Noise Level (Sound Pressure,1m)	Indoor,High	dB(A)±3	35	38	44	47
	Med.	dB(A)±3	33	35	40	44
	Low	dB(A)±3	30	33	36	41
	Outdoor,Max	dB(A)±3	46	46	46	53
Features	Temperature Control		Thermistor	Thermistor	Thermistor	Thermistor
	Plasma Filter		-	-	-	Yes
	Nano Plasma Filter		Yes	Yes	Yes	-
	Deodorizing Filter		-	-	-	-
	Auto Clean		Yes	Yes	Yes	-
	CHAOS Wind(Auto Wind)		Yes	Yes	Yes	Yes
	Air Diflection(4-WAY:Optional)		4-Way	4-Way	2-way	4-Way
	Steps, Fan/Cool		3/4	3/4	3/4	3/4
	Airflow Direction Contorl(up&down)		Auto	Auto	Auto	Auto
	Airflow Direction Contorl(left&right)		Manual	Auto	Auto	Auto
	Remocon Type		Wireless LCD	Wireless LCD	Wireless LCD	Wireless LCD
	Setting Temperature Range	Cool	18-30	18-30	18-30	18-30
		Heat	-	-	16-30	16-30
	Temperature Increment		1	1	1	1
	Auto Operation (Micom Control)		Yes	Yes	Yes	Yes
	Auto Changeover (Micom Control)		-	-	Yes	-
	Self Diagnosis		Yes	Yes	Yes	Yes
	Timer		24Hr On/Off	24Hr On/Off	24Hr On/Off	24Hr On/Off
	Sleep Operation		Yes	Yes	Yes	Yes
	Soft Dry Operation		Yes	Yes	Yes	Yes
	Restart Delay(minute)		3	3	3	3
	Deice Control(Defrost)		-	-	Yes	Yes
	Hot Start		-	-	Yes	Yes
	Jet Cool		Yes	Yes	Yes	Yes
Special Function			-	-	-	-
Refrigerant(R-22) Charge		g(oz)	630(22.2)	650(22.9)	810	1400(49.3)
Compressor	Type		Rotary	Rotary	Rotary	Rotary
	Model		QK104KAA	2PS146H2ACO2	QK182CAB	QJ258KBB
	Maker		LG	MATSUSHITA	LG electronics	LG
	Capacity	kcal/h.(Btu/h.)	1,827(7250)	2468(9800)	3175(12600)	4612(18,300)
	Motor Type		PSC	PSC	2 Pole induction	PSC
	Motor Input	W	560	2425	-	1742
	Oil Type		Sunis0 4GSI	Suniso 4GDID	SUNISO 4GSI	Suniso 4GSI
	Oil Charge	g	280	700	330	500
	O.L.P Name		MRA98854-12026	Internal	MRA12053-12027	Internal O.L.P
Blower Motor	Input	W	29	42	42	24
	Output	W	7.6	24	24	8.4
Fan Motor	Model		AMR029B2	IC-9625LG0D	OBM-2505K1	AMR-072B7
	Motor Type		AC Induction	AC Induction	AC Induction	Capacitor start and run
	Motor Input	W	89.5	77	-	140
	Motor Output	W	30	22.4	27	55
Circuit Breaker		A	15	15	15.0	15
Power Cord		AWG#:P*mm^2	16:3*1.0	16:3*1.0	16:3*1.0	14:3:1.5
Connecting Cable		AWG#:P*mm^2	16:3*1.0	16:3*1.0	16:3*1.0+18:2*0.75	14:3*1.5+18:2*0.75
Connecting Tube (Ø. Socket Flare)	Liquid Side	mm(in)	6.35(1/4)	6.35(1/4)	6.35(1/5)	6.35(1/4)
	Gas Side	mm(in)	9.52(3/8)	12.7(1/2)	12.7(1/2)	12.7(1/2)
	Length,std	m(in)	7.5(295)	7.5(295)	7.5(295)	7.5(295)
Drain Hose	(O.D , I.D)	mm(in)	21.5,16(0.85,0.63)	21.5,16(0.85,0.63)	21.5,16(0.85,0.63)	21.5,16(0.85,0.63)
Dimension	Indoor	mm	900*272*135	570*568*137	570*568*137	928*522*147
		inch	35.4*10.7*5.31	22.4*22.36*5.4	22.4*22.36*5.4	36.5*20.6*5.8
	Outdoor	mm	770*540*245	770*540*245	770*540*245	870*655*320
		inch	30.3*21.3*9.6	34.3*25.8*12.6	34.3*25.8*12.6	34.3*25.8*12.6
Net Weight	Indoor	kg(lbs)	8.1(17.8)	8.5(18.7)	9(19.8)	15(33)
	Outdoor	kg(lbs)	32(70.5)	33(72.6)	32(70.4)	54(119)
Stuffing Quantity	With S/Parts	20/40ft	92/199	87/187	92/197	54/117
	Without S/Parts	20/40ft	93/201	88/189	93/199	54/118

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Outdoor DB(°F)		85								
Indoor	WB(°F)	61			67			73		
CFM	DB(°F)	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI
317	75	11.2	8.7	1.01	12.4	6.6	1.04	13.3	2.9	1.06
	80	11.7	10.0	1.01	12.6	8.2	1.04	13.3	5.4	1.06
	85	12.1	10.9	1.01	12.8	9.9	1.04	13.3	7.5	1.06
	90	12.5	11.5	1.01	12.9	11.0	1.05	13.2	9.1	1.07

Outdoor DB(°F)		95								
Indoor	WB(°F)	61			67			73		
CFM	DB(°F)	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI
317	75	10.7	8.7	1.11	11.8	6.6	1.15	12.7	2.9	1.17
	80	11.1	10.0	1.11	12.0	8.3	1.15	12.7	5.4	1.17
	85	11.5	11.0	1.12	12.2	10.0	1.15	12.6	7.5	1.17
	90	11.9	11.6	1.12	12.3	11.1	1.16	12.6	9.1	1.18

Outdoor DB(°F)		105								
Indoor	WB(°F)	61			67			73		
CFM	DB(°F)	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI
317	75	10.0	8.3	1.19	11.1	6.3	1.23	11.9	2.8	1.25
	80	10.5	9.5	1.19	11.3	7.9	1.23	11.9	5.2	1.25
	85	10.9	10.4	1.20	11.5	9.5	1.23	11.9	7.1	1.26
	90	11.2	11.0	1.20	11.6	10.5	1.24	11.8	8.7	1.26

Outdoor DB(°F)		115								
Indoor	WB(°F)	61			67			73		
CFM	DB(°F)	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI
317	75	9.3	8.0	1.26	10.3	6.0	1.30	11.1	2.7	1.32
	80	9.7	9.1	1.26	10.5	7.5	1.30	11.1	4.9	1.33
	85	10.1	10.0	1.27	10.7	9.1	1.31	11.1	6.8	1.33
	90	10.4	10.4	1.27	10.8	10.1	1.31	11.0	8.3	1.33

Outdoor DB(°F)		125								
Indoor	WB(°F)	61			67			73		
CFM	DB(°F)	TGC	SHC	PI	TGC	SHC	PI	TGC	SHC	PI
317	75	8.2	7.2	1.32	9.1	5.5	1.36	9.8	2.4	1.38
	80	8.6	8.3	1.32	9.2	6.8	1.36	9.8	4.5	1.39
	85	8.9	8.9	1.32	9.4	8.2	1.36	9.7	6.2	1.39
	90	9.2	9.2	1.33	9.5	9.2	1.37	9.7	7.6	1.39

Notes :

1. All capacities are net, indoor fan motor heat is deducted.
2. DB = Dry Bulb Temperature (°F), WB=Wet Bulb Temperature(°F)
3. TGC = Total cooling capacity(Unit:1,000 Btu/hr)
4. SHC = Sensible cooling capacity(Unit: 1,000Btu/hr)
5. PI = Power Input(Comp.+indoor fan motor+outdoor fan motor) (kW)

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Indoor DB(°F)	Outdoor WB(°F)							
	14.0		23.0		32		35.6	
	TC	PI	TC	PI	TC	PI	TC	PI
60.8	8.1	0.9	9.6	0.9	11.0	1.0	11.6	1.0
64.4	7.9	0.9	9.2	1.0	10.7	1.1	11.2	1.1
68	7.6	0.9	9.0	1.0	10.4	1.1	10.9	1.1
71.6	7.3	0.9	8.6	1.0	10.0	1.1	10.5	1.2
75.2	7.1	1.0	8.4	1.06	9.7	1.2	10.1	1.2

Indoor DB(°F)	Outdoor WB(°F)							
	39.2		42.8		50		59.0	
	TC	PI	TC	PI	TC	PI	TC	PI
60.8	12.2	1.1	12.8	1.1	13.9	1.2	15.4	1.2
64.4	11.8	1.1	12.4	1.1	13.5	1.2	14.9	1.3
68.0	11.4	1.2	12.0	1.2	13.1	1.2	14.4	1.3
71.6	11.0	1.2	11.6	1.2	12.6	1.3	13.9	1.4
75.2	10.6	1.2	11.2	1.2	12.2	1.3	13.4	1.4

Correction Factor for Heating Capacity due to Frost on Heat Exchanger and Defrosting Operation.
The heating capacity in the "Heating Capacity Table" above indicates the actual heating capacity excluding the effect of frost on the heat exchanger and the defrosting operation. Therefore, use the following factor to calculate the average heating capacity including capacity reduction by frost on the exchanger and defrosting operation.

Outdoor Air Temperature (°FWB, RH=85%)	14	21.2	24.8	28.4	32	35.6	39.2	42.8
Correction Factor	0.95	0.95	0.89	0.87	0.87	0.89	0.91	1.00

Notes :
1. All capacities are net, indoor fan motor heat is deducted.
2. Capacities are based on the following conditions.
   Outdoor air : 85%RH. However, the condition on nominal capacity is 44.6°FDB/42.8°FWB.
3. TC=Total heating capacity(Unit:1,000 Btu/hr)
4. PI=Power Input(Comp.+indoor fan motor+outdoor fan motor) (kW)

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