

Air-L Series

User Manual ver.2.0A

First of all, please read this manual.

At first, please read this manual before driving the unit. For further instructions, please refer to the manual. Design and specifications of product could be changed by performance.

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Check power	
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Wire remote	
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Precaution for Safety

Do respect followings for safety precaution

Marks Meanings

Caution) It indicates 'caution'.

Prohibition) It indicates 'prohibition' and presents 'not to do'.

Compulsion) It indicates 'compulsion' and presents 'to do with obligation'.

On installation



>To read the instruction manual carefully to avoid the fault of unit.

(It may cause danger of electric shock ,leakage and fire)

Be careful of water leakage, if drain hose not installed with stability.

(Condensed water fall into elevator interior, if installation is not stable.)



Duse exclusive circuit breaker and electric leakage interrupter according to installation conditions. (It may cause electric shock ,if not installed.)

Do grounding properly.

(It may cause breakdown and electric shock, if not grounded.)

On Use



Do not disassemble, repair or remodel.

(It may cause electric shock ,fire and breakdown .Contact with unit supplier in case of break down.)

 \triangleright Do not step on or put heavy material on unit.

(It may cause electric shock or break down.)



Do not put your finger or foreign material into supply/return air hole of unit. (It may cause fire and breakdown of unit.)

On Check

▷ after switching off the power and stopping fan operation ,Start cleaning. (It may cause electric shock or danger of injuries.)

>clean air filter once in 4weeks.



(It may cause breakdown. Clean it more frequently in dusty environment.)

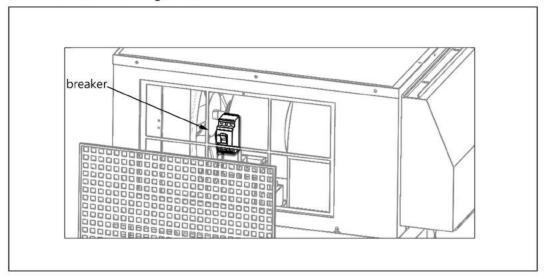
Delta Make inquiries to supplier, you should switch off power immediately, if there is any strange noise, burning smell or smoke found in operation.

(It may cause danger of electric shock and fire)

Do not give severe shock to remote monitor or disassemble it.

When using at first

DIt is check list when using at first.

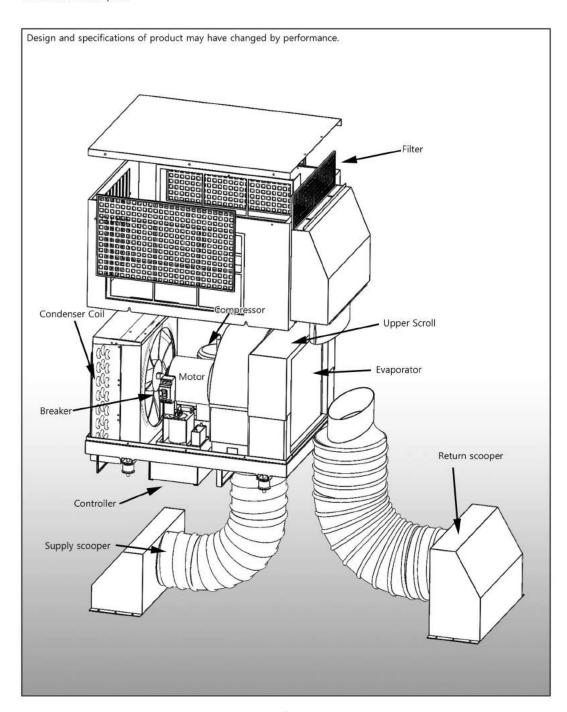


Unit property

- ▷ If cool wind is not blowed DIRECTLY, when the unit is driving.)
 - -Cool wind will blow after 1min beacuse of protecting the compressor.
- ▷ If cool wind doesn't blows continously.
 - -If temp of the elevator is lower than setting temp of the unit, automadically It is to be fan mode.
- ▷ If the unit's fan is driving continously, when stopping the unit by auto or manual.
 - Compressor protection operation: for 3min (please refer page14-parameter)
 - Vaporizer tank protection operation: for 10~30min (please refer page22 parameter)
- Condensation from air hole of the elevator celling Please put aluminium lagging sheet to air guide plate.

Name and Function of each parts

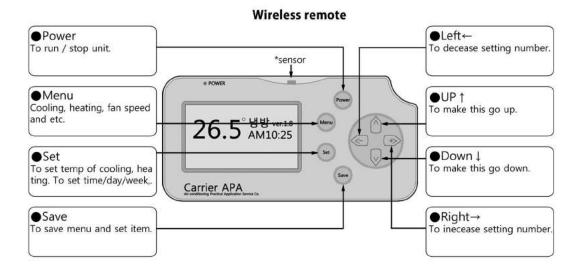
Ckeck the name of parts.



Name and Function of each parts

Ckeck the name of parts.

> Monitor could be excepted if using wired remote.

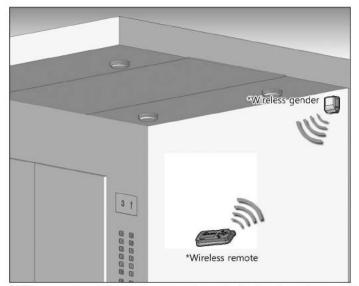


Wireless Remote

*유선 리모컨 사용시 제외될 수 있습니다.

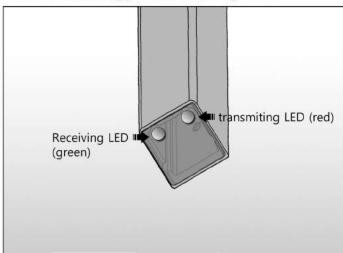
Wireless remote connection

DIt can control all of air-con function in the elevator as wireless.



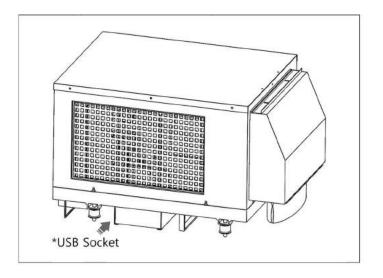
*When saving data, each sensor have to be kept as above picture.

Transmiting, Receiving LED



When using wireless remote to unit directly

> connect a usb cable to *USB Socket of controller as below.

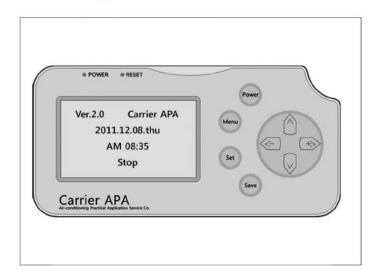


Wireless remote

When using remote

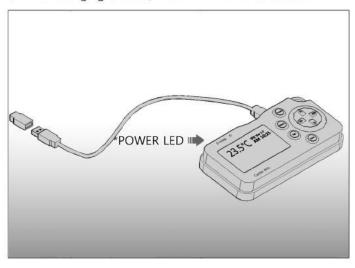
 \triangleright Wireless remote is two-way communication system(IR system).

DWhen saving data, remote control take a few seconds; 1~3sec.



Charging

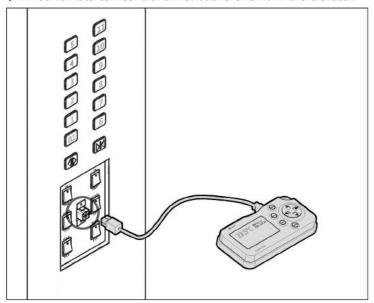
▷ Remote control is charged with USB charging cable to PC USB.▷ When charging is done, *POWER LED will be Green.



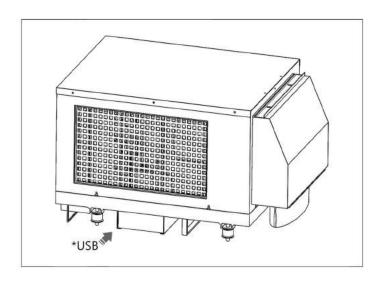
Name and Function of each parts

Ckeck the name of parts.

Wired remote connection



When using wired remote to unit(repair or a/s)



Stop Screen

>stop screen, when unit is not runnung.

Ver.2.0 Carrier APA Current version

2011.12.08.thu

AM 08:35

Stop Current status

>When air-con switch is Off in the OPB box.

Ver.2.0 Carrier APA
2011.12.08.thu
AM 08:35
Switch OFF

If switch is off, the air-con doesn't run.

▷ When air-con is stopping, Air-con runs heat of vaporizer only within 60min.

Ver.2.0 Carrier APA
2011.12.08.thu
Protectiong vaporizer
Remain time: 59min

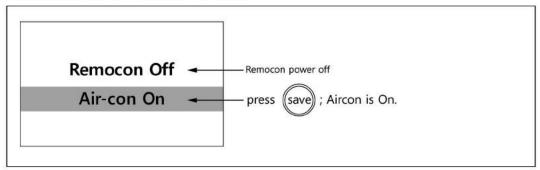
When within 60min or water level is Low, Air-con will be Off. If don't want this function, change parameter - eva enable.; unused.

>When charging the remote.

Ver.2.0 Carrier APA
11.12.08.thu
AM 08:35
Charging >>>>

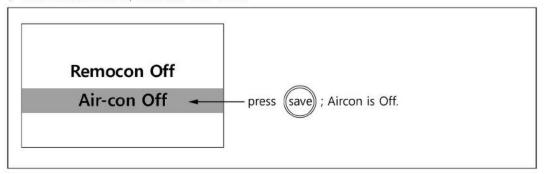
Running Air-con

> Press Power button, when air-con is off.

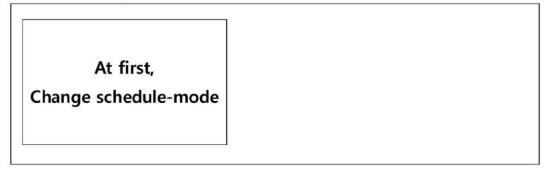


Stopping Air-con

> Press Power button, when air-con is on.

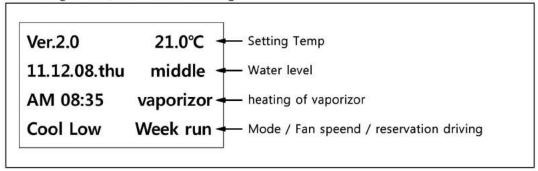


Changing schedule-mode



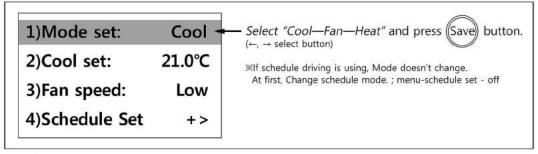
Running screen

> Running screen, when unit is running.



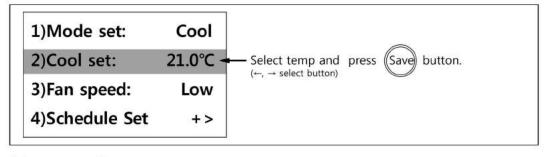
Mode

Press menu button.



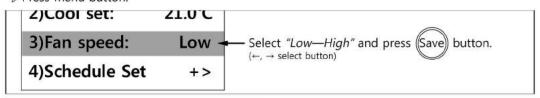
Setting temperature

> Press menu button.



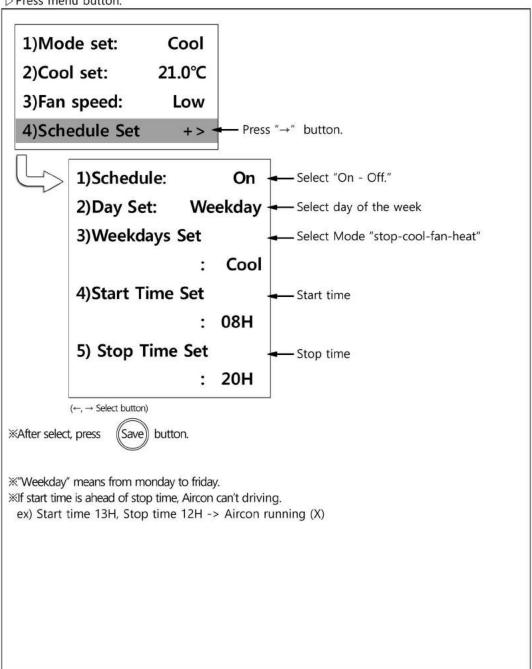
Fan speed

⊳ Press menu button.



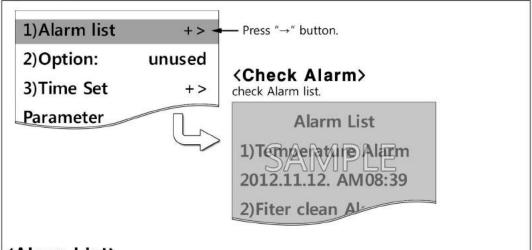
Resevation driving

Press menu button.



Alarm List

press Set button.

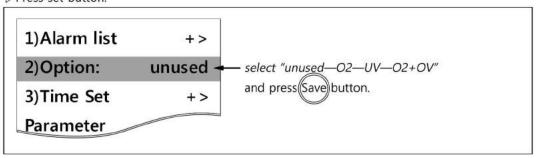


<Alarm List>

Alarm	contents	remarks
Temperature Sensor Alarm	To incorrect sensor wire connection	check sensor wire connection
Full Water Level Alarm	When water of condensate evaporator rises to high level	Compressor stopped
High Temp. Alarm	Higher room temperature than high temperature alarm setted.	Only fan operating
Sensor Alarm	Incorrect connection of level wires.	Check wire connection
Fan Alarm	When power input short circuit 5 seconds above in fan operation.	Check wire connection
Over Current Alarm	Higher electric current Higher than setting value continued 5 seconds above.	Check wire connection
Filter clean alarm	When filter cycle is arised.	Clean Filter and evaporator

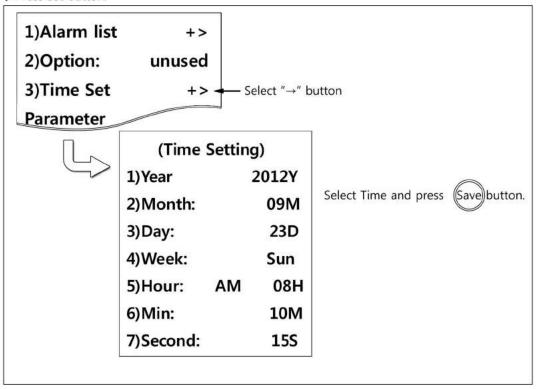
Option

> Press set button.



Current time setting

> Press set button.



Parameter Setting

press set button.

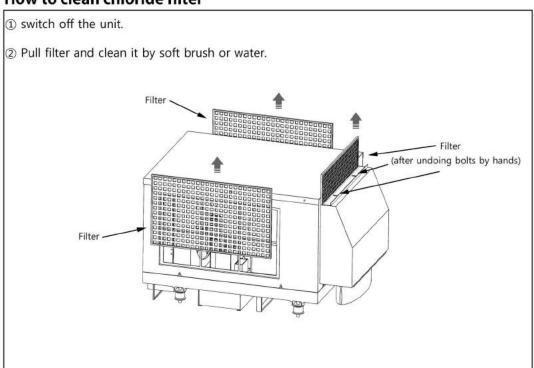
Parameter	Set value	.	125	
Cool/Dif	1.0℃	1.0℃~3.0℃	Cool temp Deviation	
Heat/Dif	1.0℃	1.0℃~3.0℃	Heat temp Deviation	
Com/Set	Monitor	Monitor—PC	Monitor : remote control / Pc : Pc system	
Eva Enable:	Use	Use-used	After unit stopping, Running heat of vaporizer within 60mi	
Language:	English	Korean-English	Language	
F/Alarm	500h	500hr~1500hr, Stop	Filter clean time / stop	
M/C No	1No	1~99	Unit name of Number	
P/reset	3초	0초~180초	If unit is running, Stop time is run for this time.	
P/delay	0초	0초~180초	If unit is stopping, Fan mode is run for this time.	
H/Temp	50℃	40℃~60℃	If current temp is higher than this value	
C/setting	25A	25A~35A	If current is higher than this value	
Temp Dif	0℃	0°C~3°C	Corrention of Setting temp	
Curr Dif	0A	0A~5A	Corrention of current	

Maintenance Guide

Periodical maintenance

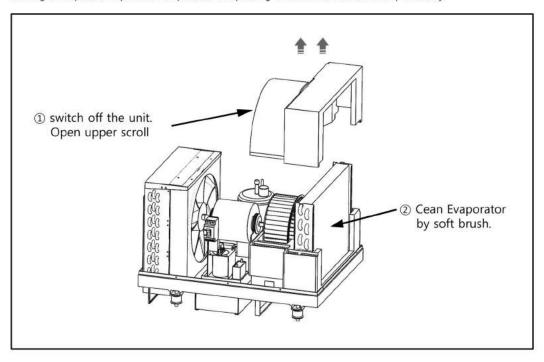
Items	Maintenance period
Cleaning Filters (unit filter 2 EA, return scooper filter 1 EA)	once a month
dust of coil in Evaporator (Removal by brushing, after opening each cover of coil)	more than once a year
state of motor, compressor, fan	once per 3 years
Inspection of Control Kit	once per 3 years

How to clean chloride filter



Maintenance Guide

How to clean Evaporator
Cleaning of Evaporator depends on air pollution or operating time, but it should be clean periodically.



Trouble Shooting Guide

If you have problems with your elevator air conditioner, check this guide before contacting your service representative.

Problem	Check	Solution
		Re-installation after washing out the filter with water
Decreasing of Cooling efficiency	*Obstruction of condenser and Evaporator coil by dust	The dust is removed by brush or others After opening of unit cover.
	#Check refrigerant leakage	Check the refrigerant fill up or not through refrigerant injection valve.
	*Compressor operation	Check graphic indication of comp. operation on control monitor.
	≉ Evaporator operation	Check graphic indication of comp. operation on control monitor.
	*check ice stack in evaporator coil lateral	Dust removal of filters(3EA) and evaporator / condenser coil.
Noise	#General noise #Compressor operating noise and some fan noise	There noises are normal during the operation Of the unit.
	* Mechanically vibration noise	check if compressor and each coil tube contacted with unit cover or compressor level is not correct.
	≉Noise due to compressor breakdown	The noise occurred inside damage by over heating due to dust obstruction of filter coils.
Dew drop	*Dew drop at both end parts of cooling air supply duct	Setting temperature over 20 °C ,after checking if temperature setted is too low. check dusty obstruction of return scooper filter and wash out with water. check air guider of ceiling exist between duct ceiling and car interior.
& leakage	*Water leakage from air supply scooper	check dusty obstruction of return duct and wash out with water check return duct installed longer than supply duct check drain hose hang too long and re-installing with shortened length.
Decreasing of heating efficiency	#Heating resistance value is 0 [Ω] #Fan operation stopped #Excess heating prevent setted is lower temperature	Change Heater Check motor wiring Temperature of excess heating prevent re-set as 50 °C

Warranty

Pro	duct	Air-L Air-con	Model	L13P/L17P/L24P
Installat	ion date	10	Warranty period	2years
	Name			
consumer	Address	000-000		
	Contact			

- •This product is assumed the responsibility from our company in all route.
- •This product is accepted by technical team who has a strict and close inspection test.
- •Under the terms of the warranty, a product found to have defects due to poor quality materials or substandard workmanship will be replaced.

Consumer Indemnification Due

Carrier in description by	Indemnification contents		
Consumer indemnification type	Within warranty period	Since warranty period	
poor quality materials	Product exchange		
breakdown from normal status	Repair free	Repair at a cost	
breakdown from consumer	Repair at a cost	Repair at a cost	

Non-free Services

1.Not breakdown

(First of all, please read the user manual. If not breakdown and ask our s ervices, it is caused a cost.)

- •To impede unit ability from dust obstruction of filter coils.
- •Ice stack in evaporator coil lateral

(please refer page 23 'Checklist before contacting a/s'.)

2.Breakdown from consumer

- ·unit remodeling illegal
- •Incorrect electric power using(ex. 220v-110v)
- •repair from unidentifiable person not our company.

3.etc

- •Filter clean or coil dust clean
- product re-install
- ·breakdown from natural disaster

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