AIR CONDITIONERS

Least Installation, Retrofit is your Choice





LG Electronics Gulf FZE

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UAE Partners : Fortune International, Al Yousuf



Airconditioner

Save Energy , Money and Your precious time.

Least Installation, Retrofit is your Choice











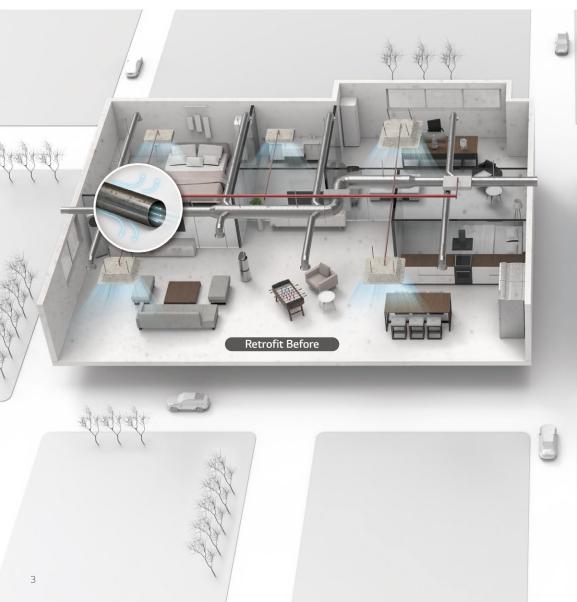


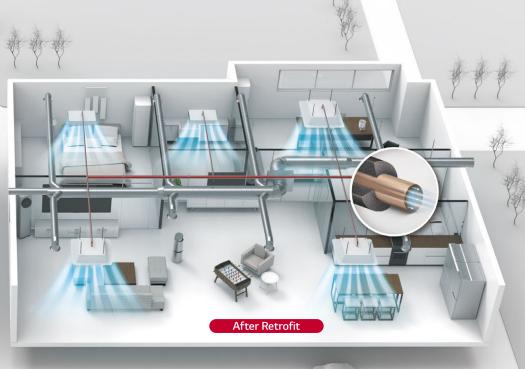
t Saving (











More than 50% Energy saving by Optimized inverter smart cooling after Retrofit

Inverter compressor slower operation once reach setting temperature and provide comfort cooling





After
Indoor temp
Setting temp ----

* Energy saving can be differed by sites and models

Why Retrofit

for Airconditioner?

Are you concerning Poor Aircon Performance and High Electricity bill?

After retrofit, performance increases and electricity bills decrease. (In case that Non-Inverter AC changed to Inverter)



* Energy saving can be differed by sites and models

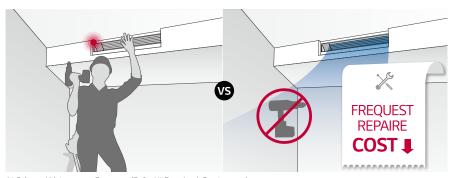
Have to Break down your house for A/C Replacement?

I think we should add disclaimers for this statement. Reinstallation is possible for a max of 1~2 units per day, that too at very favorable conditions.



Suffering from frequent A/C Failures and Repairing cost?

After replacing with a new product, the maintenance cost is reduced.



* LG Annual Maintenance Programe (Refer Hi-Emsolutek Service page)

Want more **Healthier** and **Controllable** space?

LG air conditioner is comfortable and comfortable with air cleaning function and individual control function.



Best solution for your choices

Fact Check 1

Saving energy and get payback by LG Inverter technology

L.C.C(Life Cylcle Cost) Analysis Retrofit solution and inverter technology make it possible to provide how much user can get savings and estimated payback period through LCC analysis. (Payback can be from 1 year to 3 year by product type)



* Energy saving can be differed by sites and models

Fact Check 2

Health solution for your family 5-step Air Purification

Cooling and heating, now with purified air! Enjoy clean air with the PM 1.0 particle sensor. With the semi-permanent 5-step air filter, you no longer need to worry about maintenance costs.



Electrification Filter

PM1.0 Deodorization Ionizer



Fact Check 3

Long life time with new technology

- Extended Operation Range (max 150Hz)
- Bottom Compression & Simple Structure
- Shaft-through Structure & Support both ends of shaft
- · Centrifugal oil return & Oil separating guide for oil discharge reduction



Fact Check 4

Control multiple indoor units with one remote control



- 5 inch color Display
- Touch Screen
- Group control (Max 16 indoor unit)
- Temp. / Humid sensing





Fact Check 5

Upgrade Performance and change design

- Customer can choose higher capacity with same size
- Various indoor unit can be connected with one outdoor unit (Multi V S)



Fact Check 6

Recycle installation material as much as can

- Some old pipe can be re-used after removing oil and cleaning pipes.
- Minimize working scope by recycling and re-using existing material
- It helps to save money of customer not only initial cost also operation costs too.





Function Upgrade

Use Existing Pipe & Upgrade It

Various indoor types to choose that suits you the most

A variety of sleek, elegant indoor units complement any home's interior.



Quick and easy replacement without plumbing work even when replacing old products

Recycling of existing pipes minimizes additional construction cost and time, thus reducing the inconvenience caused by replacement.









Time can be different by site status and model combination.



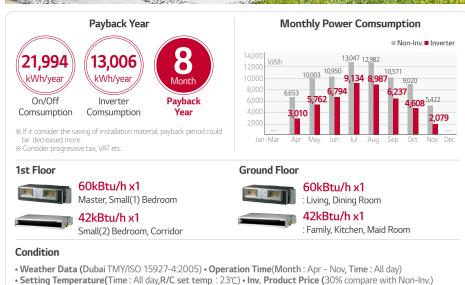
Energy & Cost Saving

Payback Reference Case

Site: G+1 Type A.B Villa in Dubai

Retrofit Details: R22 Non-Inverter Duct Type 4 units changed to R410A Inverter Duct





Air Purification System with MERV 13Filter

Air Purification Filter for Duct Type

Fresh Air

A public cleaning kit that provides filtration and sterilization of the circulating air makes the room more pleasant.

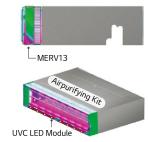


Provide more fresh space with MERV13 filtering

- MERV13 make it possible collecting small particles including virus
- Maintain Air volume same with low pressure loss structure
- Anti-virus filter where virus and germs collected can't be breeded

Sterilizing filter 99.9% by UV-LED

 UV strerilization function applied as same as home appliance (UV Nano standard-99.9% results for 3 microscopic tested by multiple 3rd party)



Duct Public Filter Box Spec.							
Size (W*H*L, mm)	M3		M2		M1		
Kit	1,250*360*280		1,250*270*280		900*270*280		
Filter	600*3 (23.6*13		600*253*50 (23.6*9.9*2 inch)		600*253*50+250*253*50 (23.6*9.9*2+9.8*9.9*2 inch)		
CMM	18 / 5.3	24 / 7.0	30 / 8.8	36 / 10.6	48 / 14.1	54 / 15.8	
Duct Product	50 / 45 / 40		38 / 33 / 28		19 / 16 / 14		
Kit	43 / 3	8 / 33	33 / 28 / 23		16 / 14 / 12		

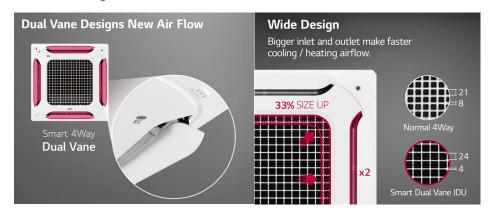
Air Purification for Non-Duct Type

A powerful 5-step air purification removes odor, germs, and invisible PM 1.0 fine dust. This filter can be cleaned with water, allowing semi-permanent usage.



Dual Vane Designs New Air Flow

Air flow certified by the NET(New Excellent Technology) provides comfortable and convenient feeling.



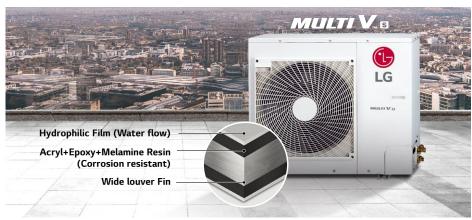


Maintenance

Enjoy more Strong Maintenance

Strong Durability with Black Fin

The black coating with enhanced epoxy resin is applied for strong protection from various corrosive external conditions.



* Single products are excluded.

Remote Control from Anywhere by ThinQ™ App

With the Thin Q^{TM} app, users can control the cooling system at any time, from anywhere. Remote access to cooling system provides users with maximized comfort.





Reference

Cool Water Solution with Airconditioner (AWHP)

Reference site: B Villa in Palm Jumeirah

The black coating with enhanced epoxy resin is applied for strong protection from various corrosive external conditions.



Installation & Feed Back

1.Site Details

- Installation Date: Aug 26 2020
- Model name : AHBW096A0
- Wanter Tank size: 3800 Liter (Located at basement)
- Setting Water Temp : Water out 23°c (Therm off at Water in Temp 26°C, Water-out temp 23)

2.Customer Response

- Satisfy Cold temperature when have bath in Summer season
- Feel good when clean and rinse vegetable and Fruits with cold water
- No big different in electricity bill







One-Stop Aircondition Full SVC

Hi-M Solutech is a global comprehensive service company that provides the best trust and impression to customers.

* CONTACT

SITE: https://himsolutek.com/

COMPANY NUMBER: +971 04 805 1470 / +971 04 805 1458

SVC

Details of Airconditioner Overhaul Service

Comprehensive maintenance services based on a precise diagnosis results through Smart Diagnosis

Comprehensive Maintenance Services



Onsite Inspection

- Visual Inspection: appearance damage, contamination, clogging, etc.
- Instrumental Inspection : Insulation resistance, noise / vibration, leakage, etc.



Repair and Adjustment

- · Re-painting mechanical and structural parts
- · Refill refrigerant or oil if necessary



Replacement with Genuine Parts

- · Replacing with a new compressor
- · Replacing mal-functional or worn parts with new ones if necessary



Cleaning

- Application of artificial intelligence control logic through the analysis of environment and usage patterns
- · Application of control logic that is more suitable for site characteristics during measurement

Outputs



Cleanliness

· Preventing peeling of coating / rust



Optimization

· Optimizing the condition of operation



Efficiency Increase

· System efficiency and performance increase



Preventive Maintenance

· Preventive maintenance against future failures

Service & Maintenance

Funqi and germs that are harmful to the human body are likely to accumulate inside the air conditioner. If it is not cleaned and managed for a long time, it will accumulate pollutants, which may lead to lower cooling efficiency and cause disease thus regular cleaning from a professional is essential.





Cooling and heating efficiency Maintains performance and efficiency by removing accumulated pollutants

Air quality improvement Provides pleasant indoor environment by removing pollutants

RCS



• BECON Cloud Service (Remote Monitoring System)

BECON Cloud consists of Facility Maintenance System(FMS), Remote Control System(RCS), Energy Management System(EMS).

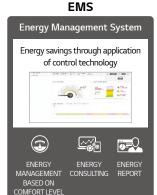


GROUP

FMS



Remote Control System Remote control facilities in Web environment regardless of time and space ----*11 *12 *12 *12 *12 *12 *12 *17 *17 544 544 544 CONTROL CONTROL

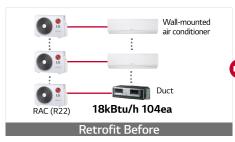


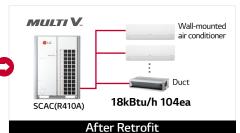
Product Configuration Proposal

ATC Labour Accommodation

Product Proposal

Period of use: 6~7 years Household: 104 bedrooms





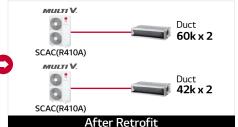


- Customer can install more A/C unit by sacing space occupancy
- Save electricity cost by changing to Inverter type aircon
- Minimizing working scope through site inspection

Arabian Ranches Villas

Period of use: about 10 years households: total 4,292 households (1 household)





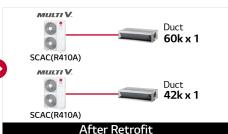
Benefit

- Provide free check-up service
- Maximize re-cycle of pipe to reduce working scope and additional costs
- Minimizing interior break-down as much as can
- Add Wifi function for control
- Saving Energy by using inverter Airconditioner

Springs Villas

Usage period: about 10 years households: 4,856 households (1 household)





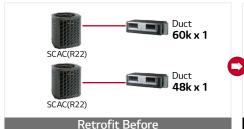


Benefit

- · Minimizing interior break-down as much as can
- Add Wifi function for control
- Saving Energy by using inverter Airconditioner

Jumeirah Park Villas

Usage period: about 10 years household: 2,000 households (1 household)







Benefit

- Recycle existing pipe
- Reducing working scope
- Central control using wifi
- Saving electicity
- Design with optimal cooling performance



Product Specification

Indoor Product

CEILING CONCEALED DUCT (MIDDLE STATIC)							
		0	is .	O S	Control of the second s		
kBtu / kW	18 / 5.3	24 / 7.0	30 / 8.8	36 / 10.6	48 / 14.1	54 / 15.8	
Indoor Model Name	ABNQ18GM1T1	ABNQ24GM1T1	ABNQ30GM1T1	ABNQ36GM3T1	ABNQ48GM3T1	ABNQ54GM3T1	
Outdoor Model Name	ABUQ18GM1T1	ABUQ24GM1T1	ABUQ30GM1T1	ABUQ36GM3T1	ABUQ48GM3T1	ABUQ54GM3T1	

CEILING CASSETTE							
	**************************************	0	O 3 3 3 3 3 3 3 3 3 3	0		10 Lt	
kBtu / kW	18 / 5.3	24 / 7.0	30 / 8.8	36 / 10.6	48 / 14.1	54 / 15.8	
Indoor Model Name	ATNQ18GPLT1	ATNQ24GPLT1	ATNQ30GPLT1	ATNQ36GNLT1	ATNQ48GMLT1	ATNQ54GMLT1	
Outdoor Model Name	ATUQ18GPLT1	ATUQ24GPLT1	ATUQ30GPLT1	ATUQ36GNLT1	ATUQ48GMLT1	ATUQ54GMLT1	

CEILING SUSPENDED						
	<u>.</u>	o s	Lo.	Lo.	L.5	
kBtu / kW	18 / 5.3	24 / 7.0	30 / 8.8	36 / 10.6	48 / 14.1	54 / 15.8
Indoor Model Name	AVNQ18GM1T1	AVNQ24GM1T1	AVNQ30GM1T1	AVNQ36GM2T1	AVNQ48GM2T1	AVNQ54GM2T1
Outdoor Model Name	AVUQ18GM1T1	AVUQ24GM1T1	AVUQ30GM1T1	AVUQ36GM2T1	AVUQ48GM2T1	AVUQ54GM2T1

Monobloc AWHP(Cool Water Solution)

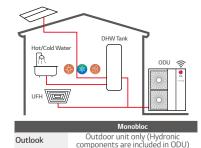
P	AWHP(Monoblock)						
		LG LG	LG LG	LG LG	is is	is is	LG LG
	kBtu / kW	5.0	5.6	8.8	10.4	12.2	13.2
	1Ø 230V	AHBW056A0	AHBW076A0	AHBW096A0	AHBW126A0	AHBW146A0	AHBW166A0
	3Ø 400V	-	-	-	AHBW128*A0	AHBW148*A0	AHBW168*A0

*3-Phase Model

THERMA V R32 Monobloc

The LG THERMA V R32 Monobloc is a fully packaged unit, where the indoor and outdoor units are combined as one module. The outdoor Monobloc unit is connected to only water piping, therefore there is no need for refrigerant piping. Hydronic components such as the plate heat exchanger, expansion tank and water pump are situated inside the outdoor unit.

The Monobloc is designed for energy efficiency, convenience, and easy-to-use controls. Operating with low Global Warming Potential (GWP) R32 refrigerant and LG's exclusive R1 compressor, power meets sustainable heating. The system has an optional Wi-Fi modem and with LG's smartphone app, LG ThinQ, users can monitor and remotely control compatible LG products.



No refrigerant piping work

Water piping between

outdoor and heat emitter

Need to be careful about frost (use antifreeze fluid)

Configuration

Water piping

Ref. piping

	d	
	LG FAMILTAGA V.	
	J . 10	

^{*} The image above is a simulation example in case of R32 Silent Monobloc in low noise mode.



Guidelines

Guidelines to reuse the copper pipe



Q&A

SCAC

Existing	Company	L	G
Products	Refrigerant	R22	R410A
Retrofitted	Product	Single	Single
Products	Refrigerant	R410A	R410A
	Pipe	0	0
	Drain Pipe	0	0
Reusable Parts	ELCB	0	0
	Power Cable	0	0
	Communication Cable	0	0

Existing	Company	Others		
Products	Refrigerant	R22	R410A	
Retrofitted	Product	Single	Single	
Products	Refrigerant	R410A	R410A	
	Pipe	0	0	
	Drain Pipe	0	0	
Reusable Parts	ELCB	0	0	
	Power Cable	0	0	
	Communication Cable	0	0	

[∴] O · Reusable



It costs too much when replace old airconditioner



We try to re-use existing material as much as can through prior check-up and propose best solution Recommend consultation before to get expected savings.



Can we change Indoor unit type or up capacity?



Customer can change product type and capacity too if circumstance allows (Space, Power supply etc) Please get proposal from our experts



What is the best benefit if use LG airconditioner?



LG provide one stop total solution from energy saving to Instant repairs, parts supply, maintenance, technical advice and monitoring. Customer can solve all aircon issue with only one company. (Hi M-solutech)

^{*} Reusable parts should be checked whether they are suitable for retrofitted products.

memo	

memo	