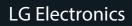
2022 LG INVERTER DIRECT DRIVE PACKAGE

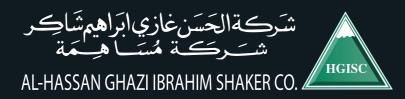






http://lge.com http://partner.lge.com http://lghvacstory.com

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Saudi Arabia

WHY LG INVERTER DIRECT DRIVE PACKAGE?

NEW WORLD TOP LEVEL EFFICIENCY 7.5 ~25RT COOLING & HEATING

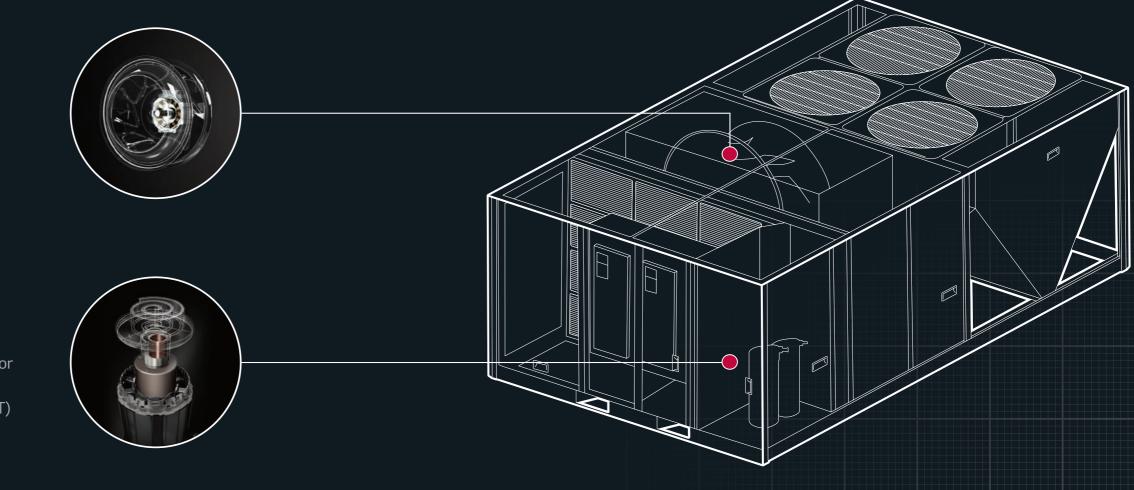
LG launches the world top level efficiency Inverter Single package

NEW CONVENIENCE

Direct drive fan motor Easy set-up method (by ESP function)

NEW ULTIMATE PERFORMANCE

Superior efficient ultimate inverter compressor Applied BLDC motors for all fans Superior level IEER 18.3 (25RT) & 19.0 (20RT)



DIRECT DRIVE INVERTER PACKAGE

INVERTER PACKAGE

Category



Economizer [PKEMD1CA0]



Cooling Only 3 / 4 / 5	Contraction of the second seco
Cooling Only 7.5 / 10	
Cooling Only 12.5 / 15	
Cooling Only 20 / 25	





SUPERIOR EFFICIENCY

World Top level IEER Superior Partial Load Efficiency Energy Savings with Linear Control Superior Efficiency Cooling & Heating Annual Energy Savings Estimation Payback Dual Sensing Control

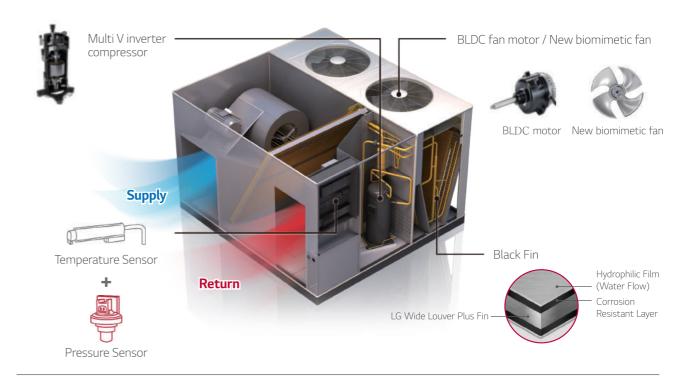






ADVANCED KEY COMPONENTS FOR HIGH ENERGY EFFICIENCY

High energy efficiency with LG's cutting-edge core components and Inverter leading technology.

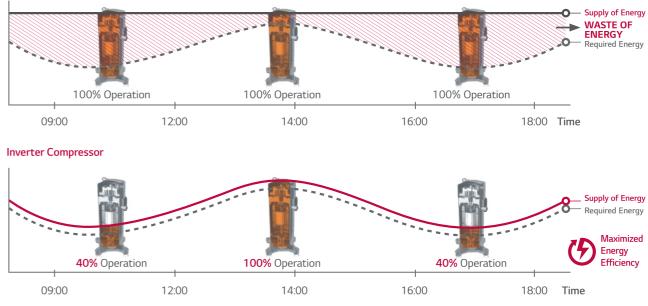


EXCELLENT PARTIAL LOAD EFFICIENCY

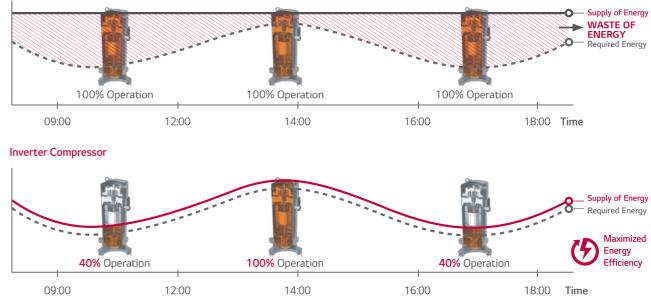
Inverter compressor maximizes energy efficiency through adjusting energy supply as required.

Energy saving concept comparison

Constant Speed Compressor



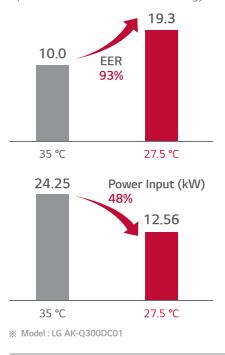




③ SUPERIOR EFFICIENCY

ANNUAL ENERGY SAVINGS

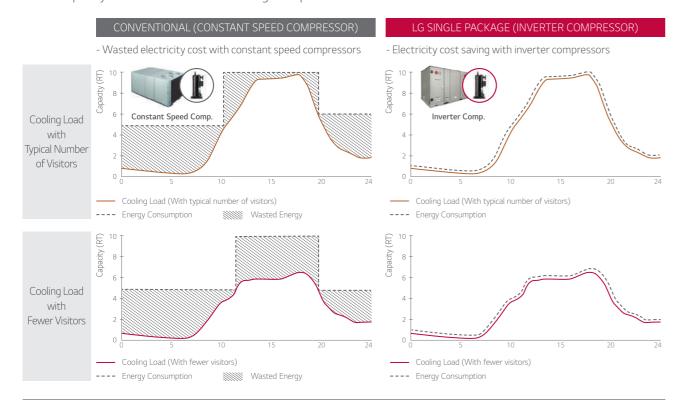
Target low pressure will be adjusted according to cooling load. LG provides energy saving by preventing on/off operation with inverter technology.





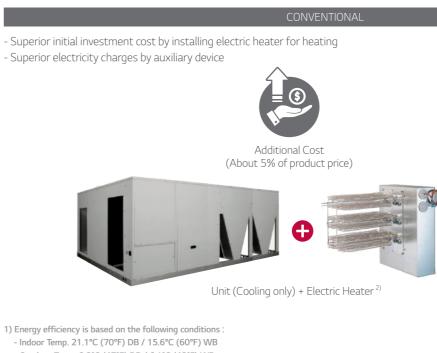
ELECTRICITY COST SAVING

During low Demand Periods, customers can save electricity costs because LG Inverter Compressors can match the actual capacity needed without overcooling the spece.



SUPERIOR EFFICIENCY HEAT PUMP

New inverter single package provides both heating and cooling while saving energy.



⁻ Outdoor Temp. 8.3°C (47°F) DB / 6.1°C (43°F) WB

2) Specification : 25kW / 460V / 3Ø / 60Hz

NEW INVERTER

- No additional investment due to no need for heater installation for heating - Annual energy savings with superior efficiency heat pump system



Unit (Heat pump)

1) This result can be different depending on actual environment. (In regions with low load condition, the efficiency of H/P product is higher.)



(W / W)



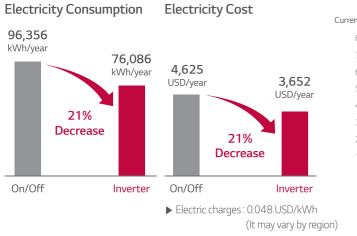


Energy Efficiency¹⁾ (W / W)

(5) SUPERIOR EFFICIENCY

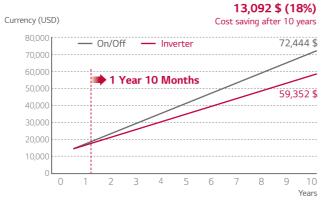
ANNUAL ENERGY SAVINGS ESTIMATION PAYBACK (KSA, RIYADH)

Electricity consumption are expected to decline by 21% compared to on/off model.





If you purchase the LG smart inverter, You can get back your investment cost after 1 year 10 months.



[Condition]

- Capacity : 20RT Single Package

- Operation time · 24 hours

- Cooling partial load and power consumption calculated based on yearly weather data (target indoor temperature : 24°C)

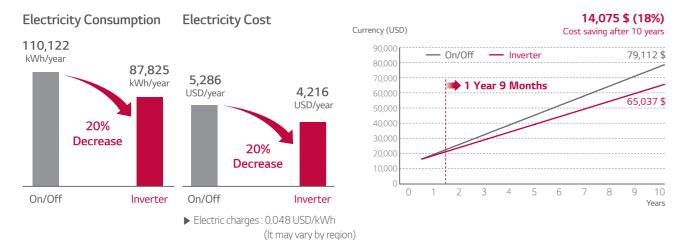
* This result can be different depending on actual environment

ANNUAL ENERGY SAVINGS ESTIMATION PAYBACK (KSA, JEDDAH)

Electricity consumption are expected to decline by 20% compared to on/off model.

(KSA, JEDDAH)

If you purchase the LG smart inverter, You can get back your investment cost after 1 year 9 months.



[Condition]

- Capacity : 20RT Single Package

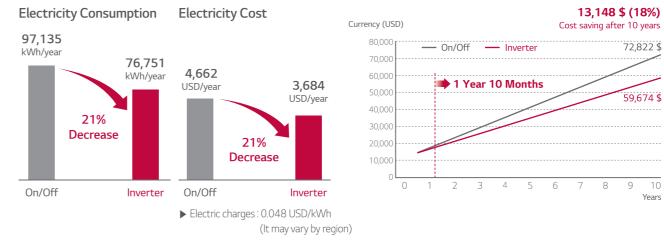
- Operation time : 24 hours

- Cooling partial load and power consumption calculated based on yearly weather data (target indoor temperature : 24°C)

* This result can be different depending on actual environment

ANNUAL ENERGY SAVINGS ESTIMATION PAYBACK (KSA, DAMMAM)

Electricity consumption are expected to decline by 21% compared to on/off model.



[Condition]

- Capacity : 20RT Single Package

- Operation time · 24 hours

- Cooling partial load and power consumption calculated based on yearly weather data (target indoor temperature : 24°C)

* This result can be different depending on actual environment

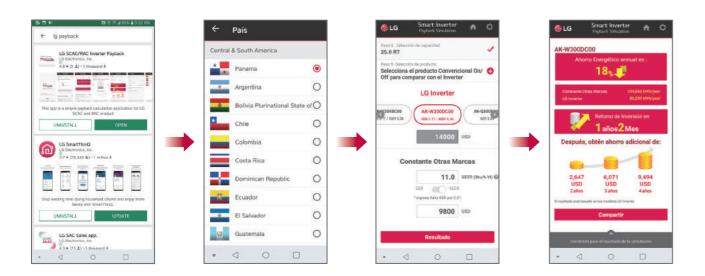
(KSA, DAMMAM)

If you purchase the LG smart inverter, You can get back your investment cost after 1 year 10 months.

(5) SUPERIOR EFFICIENCY

APPLICATION - LG INVERTER PAYBACK APP

You can easily simulate on mobile via payback app. (Install "LG SCAC / RAC Inverter Payback")

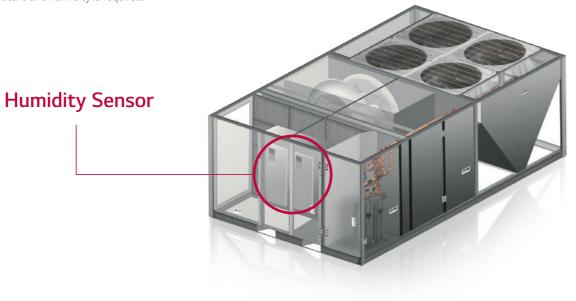


DUAL SENSING CONTROL

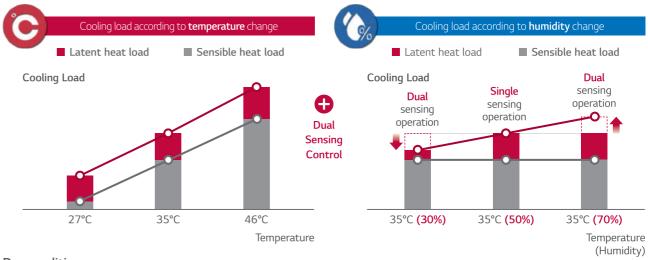
New model can be operated by dual sensors for comfort and efficient operation. (Temperature & Humidity)

Why do we need dual sensing?

To provide a comfortable cooling and increase energy savings sensing both temperature and humidity is required.



DUAL SENSING CONTROL



Dry condition

Dual sensing Control is a function that changes evaporation temperature according to temperature & humidity.

CONVETNTIONAL

- Excessive latent heat elimination regardless of humidity

- Waste Energy to eliminate latent heat



1) Te : Evaporation Temperature 2) Temperature & humidity of outdoor

Wet condition

In wet summer season, the system senses the high humidity level and increases operating ratio to decrease humidity level rapidly for making room condition in comfort zone.

- High humidity condition is not considered by only sensing the room temperature
- General latent heat elimination regardless of humidity



1) Te : Evaporation Temperature 2) Temperature & humidity of outdoor

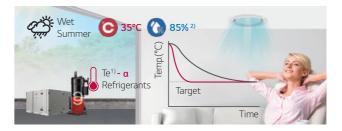
NEW INVERTER

- Comfortable environment by making the room less dry
- Increased Seasonal Efficiency



NEW INVERTER

- Comfortable environment
- With quick latent heat elimination by sensing humidity
- At higher humidity, the compressor runs more powerfully





CONVENIENCE

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GLG

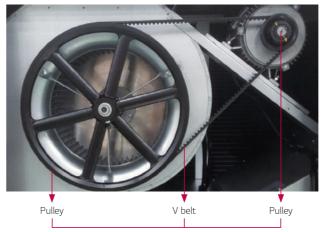
Direct Drive Fan Motor Enhanced Structure Sliding Type Filter

DIRECT DRIVE FAN MOTOR

Easy maintenance

Beltless direct drive system is easy to maintain and cost effective.

- Motor alignment, pulley and belt adjustment are required
- Grease periodically
- High cost of replacement and repair with large number of parts

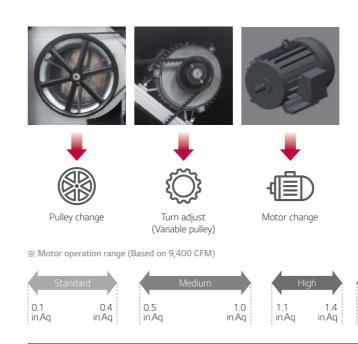


Additional parts

Easy installation

By applying a high static pressure motor, It has wide E.S.P coverage and easy to set the air volume.

- It is necessary to change the pulley and motor to change airflow



(O)

NEW INVERTER

- No need to adjust pulley and belt periodically
- No need to grease periodically
- Low cost of replacement and repair with fewer parts





No additional parts (Reduced parts and labor costs)

- Set RPM by simple touch on remote control to change airflow



- Standard || (PREMTB100/10)
- Standard III (PREMTB001/01)
- Simple controller (PQRCUC2W)

% Motor operation range (Based on 9,200 CFM)



CONVENIENCE

SLIDING TYPE FILTER

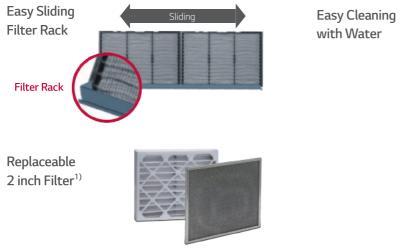
Easy maintenance and extended product life with sliding type filter. The pre-filter is easy to clean with water and replaceable 2 inch filter can also be installed.

ENHANCED STRUCTURE

3 Way Fork Lift Holes

3 Way fork lift holes easy to carry the product in various places and pop nut structure increases screw wear reliability.





1) Specification : 25 x 20 (in.) x 6 (EA) % When 2 inch filter is applied, Static pressure drops by 0.142 in.Aq.









Pop Nut with Improved Wear



RELIABILITY

Ultimate Inverter Compressor Protection for Voltage Fluctuation Black Fin

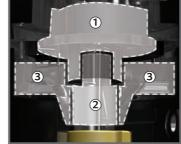


ULTIMATE INVERTER COMPRESSOR

By applying world class technology of Multi V, superior efficient and reliable operation has been achieved. 18 years of inverter technology applied to LG new single package.

- Inner bearing type
- Low speed operation with unstable structure







Material: PTFE¹⁾ (1)+(2) Structure : Inner Bearing ③ Supporter

1) PTFE : Polytetra fluoro ethylene 2) PEEK : Polyether ether ketone % Conventional : JBA068MAC (6.8 HP) x 2EA in product

New inverter : JBA096MAC (9.6 HP) x 2EA in product

PROTECTION FOR VOLTAGE FLUCTUATION

Below low voltage limit, inverter compressor reduces frequency (Hz) and boost DC voltage, over high voltage limit, cuts off the relay to prevent damage of DC capacitor. And inverter is able to operate at a wider voltage range than constant speed model.

	Constant	LG Inverter
Low & High Voltage detection	No protection logic	Automatic detection and blocking
CT (Current transformer) current limit	On/Off operation	Inverter Control without stopping
DC peak detection	No need	Automatic detection and blocking
N phase reverse wiring (3 phase only)	No detection	Automatic detection
Missing phase detection (3 phase only)	No detection	Automatic detection



NEW COMPRESSOR

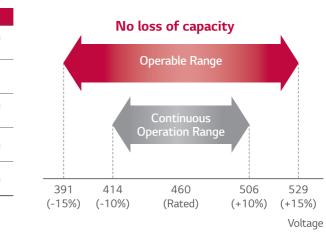
- Increased durability and reliability with outer bearing type
- Superior speed operation with reduction of bearing load and vibration







 Material : PEEK²⁾ (1)+(2) Structure : Outer Bearing ③ Supporter



% The allowable operation range is $\pm 10\%$ of rated voltage (460V). % This result can be different depending on actual environment.

© RELIABILITY

BLACK FIN

The black coating with enhanced complex resin is applied for strong protection from various corrosive external conditions such as salt contamination and air pollution including fumes from factories. This improvement in durability prolongs the product's lifespan and lowers both the operational and maintenance costs.

Longer Lifespan, Lower Maintenance Costs



% Verification of corrosion resistance performance.

* Black Fin is applied for Cooling & Heating model only.

Black Fin's performance of corrosion resistance is improved based on Conventional Fin.



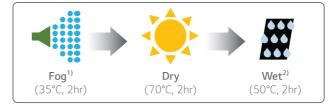




Test process is conducted according to ISO 9227. 1) Salty water concentration : NaCl aqueous solution (5%)

CCT (Cyclic Corrosion Test)

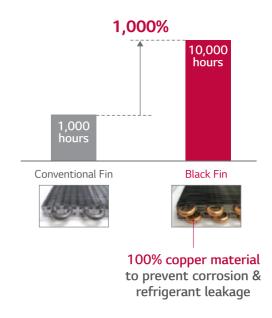
Test Process





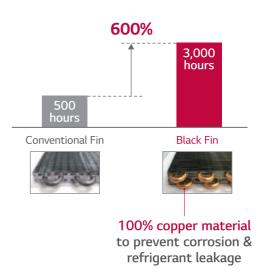
Test process is conducted according to ISO 14933. 1) Salty water concentration : NaCl aqueous solution (5%) 2) Deionized water

% Dry condition changed : 60°C, 4hr \rightarrow 70°C, 2hr



Test Result (0.05% Area of defects compared to initial)

Test Result (0.05% Area of defects compared to initial)



CUSTOMIZED CONTROL

NEW DESIGN REMOTE CONTROLLER DESIGN

LG Individual Controller provides intuitive GUI with color LCD and touch type interface button.



% Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

GROUP CONTROL

Group Control allows the user to control the operation of multiple units at once. This is the appropriate solution to control a big area as a one zone.



Appealing Design New

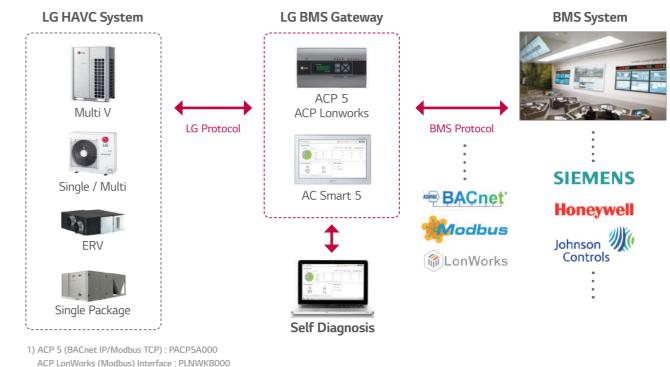
Conventional

Controller & Installation Cost Saving



3rd PARTY BMS SYSTEM COMPATIBILITY

LG Inverter Single Package can be connected with gateway products for different protocols such as Modbus, BACnet and LonWorks. And gateway product offers self diagnosis interface thanks to smart GUI included.

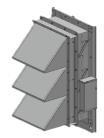


ECONOMIZER (MODEL: PKEMD1CA0)

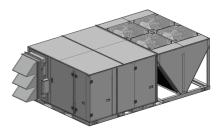
Provides outside air to a room to save energy and improve the air quality indoors.

FUNCTION

- Differential Enthalpy Control
- Includes Outdoor Air Rain Hood
- Washable 1" Stainless Filter
- Motorized 2-Position and Manual Operation Available
- Damper Operation with Wired Remote Controller
- AMCA Certified Low Leak Air Damper
- Easy maintenance



- Economizer Size : 1,149 x 743 x 597
- Filter Efficiency : MERV6
- Filter Size : 925 x 508 x 25
- Damper Opening Size : 930 x 510



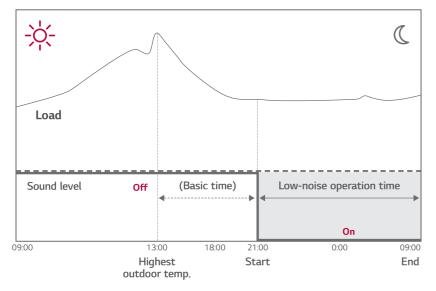
CUSTOMIZED CONTROL

LOW NOISE OPERATION

The Low-Noise Operation is possible regardless of the time where noise sensitive areas. Instead of installer setting, the low noise operation is set by a building manager easily.

Conventional

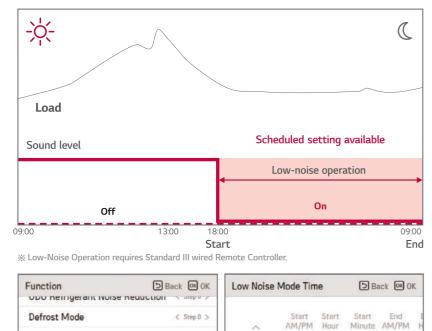




Only outdoor unit dip switch setting is possible.

New Inverter

Standard III wired Remote Controller setting possible



Off)

< Set >

Can be easily activated in the remote controller.

EASY SCHEDULING

Schedule function allows customers to arrange the operation setting of equipment according to their desired schedule. Customers easily schedule daily, weekly, monthly, yearly plan with a calendar, also an exception date enables patterned schedule.

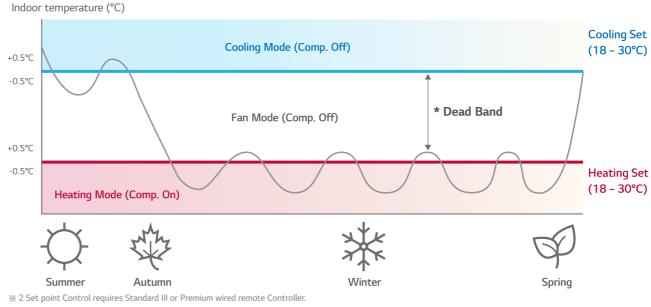






2 SET POINT CONTROL

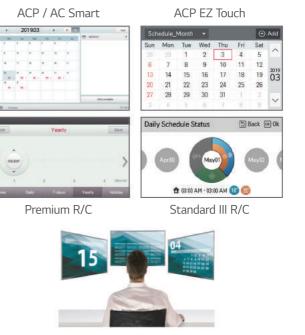
Auto Changeover can manage room temperature with changing Heating / Cooling mode and Compressor-off automatically. With setting heating and cooling set temperature just one time, comfortable condition will continue at all times. It is also possible to reduce the energy use by broadening the set temperature gap of cooling and heating.



- Model : PREMTB100 (Standard III), PREMTA000 / PREMTA000A / PREMTA000B (Premium) * Minimum temperature gap : Setting value (0 ~ 5°C)

Smart Load Control

Low Noise Mode Time



SPECIFICATION

COOLING ONLY



1 Phase 220~240V 50Hz 1 Phase 220V 60Hz

Category						
Model Name				AK-C03620	AK-C04820	AK-C06020
	Net Capacity		kW (Rated)	10.26	13.50	17.25
Cooling Capacity	net cupucity		Btu/h (Rated)	35,000	46,500	59,200
cooling capacity	Gross Capacity		kW (Rated)	10.55	14.07	17.58
	Closs capacity		Btu/h (Rated)	36,000	48,000	60,000
Power Input	Cooling		kW	2.69	3.86	5.10
EER			Btu/Wh	13.00	12.05	11.60
SEER			Btu/Wh	18.0	17.0	17.0
Power Supply			V, Ø, Hz	230, 1, 60	230, 1, 60	230, 1, 60
Running Current	Cooling	Rated	A	11.7	16.9	22.5
Wiring Connections	Power Supply C	able (Included Earth)	No. x mm ²	3C × 4.0	3C×4.0	3C × 4.0
		WxHxD	mm	1,280 × 1,065 × 1,110	1,280 × 1,065 × 1,110	1,280 × 1,065 × 1,110
Dimensions		WxHxD	inch	50-13/32×41-29/32 ×43-23/32	50-13/32 × 41-29/32 × 43-23/32	50-13/32 × 41-29/32 × 43-23/32
Net Weight			kg (lbs)	174 (384)	174 (384)	174 (384)
Compressor	Туре		-	Twin Rotary	Twin Rotary	Twin Rotary
(#1, A Cycle)	Motor Output		W x No.	4,000 x 1	4,000 x 1	4,000 x 1
Compressor	Туре		-			
(#2, B Cycle)	Motor Output		W x No.			
	Туре		-	R410A	R410A	R410A
	Precharged Amount (A-circuit)		g	3,600	3,600	3,600
Refrigerant	Precharged Amount (B-circuit)					
	Control		-	EEV	EEV	EEV
	Туре		-	FVC68D	FVC68D	FVC68D
Refrigerant Oil	Charged Volum	e	cc x No.	1,300 x 1	1,300 x 1	1,300 x 1
	Туре		-	Centrifugal Blower Fan	Centrifugal Blower Fan	Centrifugal Blower Fan
la da an Cida Fan	Diameter		mm (inch)	Direct	Direct	Direct
ndoor Side Fan	Nominal	Nominal	m³/min	34.0	45.3	49.8
	Air Flow Rate	Nominal	ft³/min	1,200	1,600	1,760
Dehumidification Rate			ℓ/h	2.23	3.47	5.58
Outdoor Side Heat Exchanger		-	Gold fin / Wide Louver plus	Gold fin / Wide Louver plus	Gold fin / Wide Louver plus	
Outdate Cide 5	Fan Type		-	Propeller	Propeller	Propeller
Outdoor Side Fan	Motor Type		-	BLDC	BLDC	BLDC
Sound Pressure Level	Cooling	Rated	dB(A)	75	75	75
Drain Connection Size		-	NPT 3/4	NPT 3/4	NPT 3/4	
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°C DB (°F DB)	-5 (23.0) ~ 54 (129.2)	-5 (23.0) ~ 54 (129.2)	-5 (23.0) ~ 54 (129.2)

COOLING ONLY



3 Phase, 400V 60Hz

Category				7.5	10
Model Name				AK-Q0909C01	AK-Q1209C02
	Net Capacity		kW (Rated)	26.4	36.6
Cooling Capacity			Btu/h (Rated)	90,000	125,000
cooling capacity	Gross Capacity		kW (Rated)	27.5	38.4
	Gloss capacity		Btu/h (Rated)	94,000	131,000
Power Input	Cooling		kW	7.50	10.60
EER			Btu/Wh	12.0	11.8
SEER			Btu/Wh		
Power Supply			V, Ø, Hz	400, 3, 60	400, 3, 60
Running Current	Cooling	Rated	A	11.8	16.3
Wiring Connections	Power Supply C	able (Included Earth)	No. x mm ²	4C × 8.4	4C × 8.4
		WxHxD	mm	2,250 × 1,106 × 1,130	2,230 × 1,237 × 1,958
Dimensions		WxHxD	inch	88-19/32 × 43-17/32 × 44-1/2	87-25/32 × 48-11/16 × 77-3/32
Net Weight			kg (lbs)	343 (756)	530 (1,168)
Compressor	Туре		-	HSS DC SCROLL	HSS DC SCROLL
#1, A Cycle)	Motor Output		W x No.	5,300 × 1	5,300 × 1
Compressor	Туре		-		
(#2, B Cycle)	Motor Output		W x No.		
	Туре		-	R410A	R410A
	Precharged Amount (A-circuit)		g	6900.0	13000.0
Refrigerant	Precharged Amount (B-circuit)				
	Control		-	EEV	EEV
	Туре		-	FVC68D	FVC68D
Refrigerant Oil	Charged Volum	e	cc x No.	1,200 × 1	1,200 × 1
	Туре		-	Sirocco Fan	Sirocco Fan
	Diameter		mm (inch)	Belt	Belt
ndoor Side Fan		Nominal	m³/min	85.0	113.3
	Air Flow Rate	Nominal	ft³/min	3,000	4,000
Dehumidification Rate			ℓ/h	9.9	13.8
Putdoor Side leat Exchanger		-	Gold fin / Wide Louver plus	Gold fin / Wide Louver plus	
	Fan Type		-	Propeller	Propeller
Outdoor Side Fan	Motor Type		-	BLDC	BLDC
Sound Pressure Level	Cooling	Rated	dB(A)	70	75
Drain Connection Size		1	-	Male PT 3/4"	Female NPT 1"
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°C DB (°F DB)	-5 ~ 54 (23.0~129.2)	-5 ~ 54 (23.0~129.2)

SPECIFICATION

COOLING ONLY



3 Phase, 400V 60Hz

Category				12.5	15
Model Name				AK-Q1509C02	AK-Q1809C02
	Net Capacity		kW (Rated)	40	52.5
Cooling Capacity			Btu/h (Rated)	136,000	180,000
cooling capacity	Gross Capacity		kW (Rated)	41.5	54.2
	closs capacity		Btu/h (Rated)	141,800	185,100
Power Input	Cooling		kW	11.70	15.50
EER			Btu/Wh	11.6	11.6
SEER			Btu/Wh		
Power Supply			V, Ø, Hz	400, 3, 60	400, 3, 60
Running Current	Cooling	Rated	A	18.1	24.0
Wiring Connections	Power Supply C	able (Included Earth)	No. x mm ²	4C × 8.4	4C × 8.4
		WxHxD	mm	2,230 × 1,237 × 1,958	2,230 × 1,242 × 3,520
Dimensions		WxHxD	inch	87-25/32 × 48-11/16 × 77-3/32	87-25/32 × 48-29/32 × 138-19/32
Net Weight		kg (lbs)	530 (1,168)	885 (1,951)	
Compressor	Туре		-	HSS DC SCROLL	HSS DC SCROLL
(#1, A Cycle)	Motor Output		W x No.	5,300 × 1	4,200 × 1
Compressor	Туре		-		HSS DC SCROLL
(#2, B Cycle)	Motor Output		W x No.		4,200 × 1
	Туре		-	R410A	R410A
	Precharged Amo	ount (A-circuit)	g	13000.0	9000.0
Refrigerant	Precharged Amount (B-circuit)				9000.0
	Control		-	EEV	EEV
	Туре		-	FVC68D	FVC68D
Refrigerant Oil	Charged Volume	2	cc x No.	1,200 × 1	1,200 × 1
	Туре		-	Sirocco Fan	Sirocco Fan
	Diameter		mm (inch)	Belt	Belt
Indoor Side Fan		Nominal	m³/min	141.6	169.9
	Air Flow Rate	Nominal	ft³/min	5,000	6,000
Dehumidification Rate		1	ℓ/h	15.6	20.7
Outdoor Side Heat Exchanger		-	Gold fin / Wide Louver plus	Gold fin / Wide Louver plus	
Outstand Cid. 5	Fan Type		-	Propeller	Propeller
Outdoor Side Fan	Motor Type		-	BLDC	BLDC
Sound Pressure Level	Cooling	Rated	dB(A)	75	85
Drain Connection Size			-	Female NPT 1"	Female NPT 1"
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°C DB (°F DB)	-5 ~ 54 (23.0~129.2)	-5 ~ 54 (23.0~129.2)

COOLING ONLY

3 Phase, 400V 60Hz

Category				20	25
Model Name				AK-Q2409C01	AK-Q3009C01
	Net Capacity		kW (Rated)	70.6	80.9
Cooling Capacity	Net capacity		Btu/h (Rated)	241,000	276,000
cooling capacity	Gross Capacity		kW (Rated)	73.6	85
	Gloss capacity		Btu/h (Rated)	251,100	290,000
Power Input	Cooling		kW	21.50	26.20
EER			Btu/Wh	11.2	10.5
SEER			Btu/Wh		
Power Supply			V, Ø, Hz	400, 3, 60	400, 3, 60
Running Current	Cooling	Rated	A	34.0	42.0
Wiring Connections	Power Supply C	able (Included Earth)	No. x mm ²	4C×13.3	4C × 13.3
		WxHxD	mm	2,230 × 1,242 × 3,520	2,230 × 1,242 × 3,520
Dimensions W x		WxHxD	inch	87-25/32×48-29/32×138-19/32	87-25/32×48-29/32×138-19/32
Net Weight		-	kg (lbs)	950 (2,094)	950 (2,094)
Compressor	Туре		-	HSS DC SCROLL	HSS DC SCROLL
(#1, Å Cycle)	Motor Output		W x No.	5,300 × 1	5,300 × 1
Compressor	Туре		-	HSS DC SCROLL	HSS DC SCROLL
(#2, B Cycle)	Motor Output		W x No.	5,300 × 1	5,300 × 1
	Туре		-	R410A	R410A
	Precharged Amount (A-circuit)		g	12000.0	12000.0
Refrigerant	Precharged Am	ount (B-circuit)		12000.0	12000.0
	Control		-	EEV	EEV
	Туре		-	FVC68D	FVC68D
Refrigerant Oil	Charged Volum	e	cc x No.	1,400 × 1	1,400 × 1
	Туре		-	Sirocco Fan	Sirocco Fan
	Diameter		mm (inch)	Belt	Belt
Indoor Side Fan		Nominal	m³/min	226.5	283.2
	Air Flow Rate	Nominal	ft³/min	8,000	10,000
Dehumidification Rate			ℓ/h	26.18	29.82
Outdoor Side Heat Exchanger		-	Gold fin / Wide Louver plus	Gold fin / Wide Louver plus	
	Fan Type		-	Propeller	Propeller
Outdoor Side Fan	Motor Type		-	BLDC	BLDC
Sound Pressure Level	Cooling	Rated	dB(A)	85	85
Drain Connection Size		1	-	Female NPT 1"	Female NPT 1"
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°C DB (°F DB)	-5 ~ 54 (23.0~129.2)	-5 ~ 54 (23.0~129.2)

SPECIFICATION

COOLING & HEATING



3 Phase, 380 ~ 415V, 50/60Hz

Nominal Capacity	(Rated/Max)		RT	7.5/10	10/11	15/18
Model Name				AK-W110LH00	AK-W130LH00	AK-W200LH00
	Net Capacity		kW (Rated/Max)	26.4 / 34.6	34.3 / 38.1	51.0 / 64.5
Cooling Capacity			Btu/h (Rated/Max)	90,000 / 118,000	117,000 / 130,000	174,000 / 220,000
cooming capacity	Gross Capacity		kW (Rated/Max)	27.0 / 35.2	35.2 / 39.0	52.6 / 66.1
	closs capacity		Btu/h (Rated/Max)	91,960 / 119,960	120,000 / 133,000	179,500 / 225,500
Power Input	Cooling		kW	7.37 / 15.0	10.08 / 15.5	15.26 / 30.00
EER			Btu/Wh	12.2	11.6	11.4
SEER			Btu/Wh	20	19	18.5
Power Supply			V, Ø, Hz	380~415, 3, 50/60	380~415, 3, 50/60	380~415, 3, 50/60
Running Current	Cooling	Rated	A	11.8	15.9	23.4
Wiring Connections	Power Supply C	able (Included Earth)	No. x mm ²	4C × 13.3	4C×13.3	4C × 21.2
		WxHxD	mm	1,130 × 1,242 × 2,250	1,130 × 1,242 × 2,250	2,230 × 1,242 × 2,400
Dimensions W x		WxHxD	inch	44-1/2 × 48-29/32 × 88-19/32	44-1/2 × 48-29/32 × 88-19/32	87-25/32 × 48-29/32 × 94-1/2
Net Weight		kg (lbs)	440 (970)	440 (970)	705 (1,554)	
Compressor	Туре		-	HSS DC SCROLL	HSS DC SCROLL	HSS DC SCROLL
(#1, A Cycle)	Motor Output		W x No.	5,500 x 1	5,500 x 1	5,300 x 1
Compressor	Туре		-			HSS DC SCROLL
(#2, B Cycle)	Motor Output		W x No.			5,300 x 1
	Туре		-	R410A	R410A	R410A
	Precharged Amount (A-circuit)		g	9000	9000	5200.0
Refrigerant	Precharged Amount (B-circuit)					5200.0
	Control		-	EEV	EEV	EEV
	Туре		-	FW68D	FW68D	FW68D
Refrigerant Oil	Charged Volum	e	cc x No.	1,500 x 1	1,500 x 1	1,200 x 1
	Туре		-	Plug Fan	Plug Fan	Plug Fan
	Diameter		mm (inch)	Direct	Direct	Direct
ndoor Side Fan		Nominal	m³/min	85	113	170
	Air Flow Rate	Nominal	ft³/min	3,000	4,000	6,000
Dehumidification Rate			ℓ/h	9.1	12.1	18.1
Outdoor Side Heat Exchanger	Fin Type		-	Black fin / Wide Louver plus	Black fin / Wide Louver plus	Black fin / Wide Louver plus
	Fan Type		-	Propeller	Propeller	Propeller
Outdoor Side Fan	Motor Type		-	BLDC	BLDC	BLDC
Sound Pressure Level	Cooling	Rated	dB(A)	80	80	80
Drain Connection Size	1		-	Male NPT 3/4"	Male NPT 3/4"	Male NPT 1"
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°C DB (°F DB)	-5 ~ 54 (23.0~129.2)	-5 ~ 54 (23.0~129.2)	-5 ~ 54 (23.0~129.2)

* In case of Heatpump model, AHRI certification program is limited up to 20RT model. so, LG will provide LG laboratory test report of 25RT model.

COOLING & HEATING



3 Phase, 380 ~ 415V, 50/60Hz

Nominal Capacity	(Rated/Max)		RT	
Model Name				
	Not Conscitu		kW (Rated/Max)	
Cooling Constitu	Net Capacity		Btu/h (Rated/Max)	
Cooling Capacity	Gross Capacity		kW (Rated/Max)	
	Gloss capacity		Btu/h (Rated/Max)	
Power Input	Cooling		kW	
EER			Btu/Wh	
SEER			Btu/Wh	
Power Supply			V, Ø, Hz	
Running Current	Cooling	Rated	A	
Wiring Connections	Power Supply C	able (Included Earth)	No. x mm ²	
		WxHxD	mm	2,
Dimensions		WxHxD	inch	87-25/32
Net Weight			kg (lbs)	
Compressor	Туре	e		
(#1, A Cycle)	Motor Output		W x No.	
Compressor	Туре		-	
(#2, B Cycle)	Motor Output		W x No.	
	Туре		-	
Defricement	Precharged Amo	ount (A-circuit)	g	
Refrigerant	Precharged Amo	ount (B-circuit)		
	Control		-	
Defricement Oil	Туре		-	
Refrigerant Oil	Charged Volume	e	cc x No.	
	Туре		-	
Indoor Side Fan	Diameter		mm (inch)	
Indoor side Fait	Air Flow Rate	Nominal	m³/min	
	All How Nate	Nominal	ft³/min	
Dehumidification Rate	ℓ/h			
Outdoor Side Heat Exchanger	Fin Type		-	
0.11.51.5	Fan Type		-	
Outdoor Side Fan	Motor Type		-	
Sound Pressure Level	Cooling	Rated	dB(A)	
Drain Connection Size			-	
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°C DB (°F DB)	-5

* In case of Heatpump model, AHRI certification program is limited up to 20RT model. so, LG will provide LG laboratory test report of 25RT model.

20/26	23/29			
AK-W270LH00	AK-W320LH00			
70.0 / 90.3	81.0 / 101.1			
240,000 / 308,000	276,000 / 345,000			
72.3 / 92.3	83.6 / 103.8			
246,900 / 314,900	285,200 / 354,200			
21.3/32.1	26.0 / 39.2			
11.3	10.6			
19.0	18.3			
380~415, 3, 50/60	380~415, 3, 50/60			
33.0	40.0			
4C × 33.6	4C×33.6			
2,230 × 1,242 × 3,520	2,230 × 1,242 × 3,520			
32 × 48-29/32 × 138-19/32	87-25/32 × 48-29/32 × 138-19/32			
915 (2,017)	915 (2,017)			
HSS DC SCROLL	HSS DC SCROLL			
5,500 × 1	5,500 × 1			
HSS DC SCROLL	HSS DC SCROLL			
5,500 × 1	5,500 × 1			
R410A	R410A			
9000.0	9000.0			
9000.0	9000.0			
EEV	EEV			
FW68D	FW68D			
1,500 × 1	1,500 × 1			
Plug Fan	Plug Fan			
Direct	Direct			
227	261			
8,000	9,200			
24.1	30.1			
Black fin / Wide Louver plus	Black fin / Wide Louver plus			
Propeller	Propeller			
BLDC	BLDC			
77	77			
Male NPT 1"	Male NPT 1"			
-5 ~ 54 (23.0 ~ 129.2)	-5 ~ 54 (23.0 ~ 129.2)			

ADDITIONAL LINE UP



The Largest Capacity Single Package

STANDARD FEATURES

• Refrigerant : R410A.

- Power Supply: 380-415V / 3PH / 60Hz.
- Factory Wired with Single Point Power Input.

Constant Scroll Compressor.

- High Pressure & Low Pressure Safety Switches.
- Power Controller, High / Low Voltage, Phase Loss / Reversal Protection.
- All units are provided with ON-Delay timers for Anti-short cycling.
- Internal Motor Protection for 3Ø Indoor & Outdoor motors.
- All Units are designed to operate with 24V Universal Thermostat.
- Thermal Expansion Valve

• Condenser Fans are Propeller type Direct Driven, draw through Vertical Discharge with fan guard mounted to the Panel.

- Condenser & Evaporator Coils made of Copper tubes and Aluminum fins.
- Weather resistant steel cabinet, qualified for 1,000 Hours of Salt Spray test.
- 2" Disposable Air Filter.
- Anti Corrosion Heresite Treatment on condenser coil HEX
- Hydrophilic coating on Evaporator HEX
- IP 55 Class F for Blower Motor

COOLING ONLY



3 Phase, 380 ~ 415V, 60Hz

Norminal Capacity			RT	30
Model Name				AK-C3609H00
Cooling Capacity @ T1*			Btu/h	350,000
Power Consumption			W	34,400
EER @ T1*	l@11		-	10.15
Cooling Capacity @1	Γ 2 **		Btu/h	294,000
Power Consumption			W	38,800
EER @ T3**	(@15		Btu/Wh	7.55
Nominal Air Flow			CFM	12,000
External Static Press	Ire		Inch H ₂ O g	0.5*
Power Supply			V / Ph / Hz	380-400 / 3 / 60
Tower Supply	Туре		-	R410A
	Precharged Am	ount	kg	32.0
Refrigerant	Standard Circui		NOS	2
	Control		1105	Z TXV
	Control	Turne		Centrifugal
		Type Drive	-	Belt Drive
	Blower	Dive Dia x Width	Inch	18" x 18" - Twin
			Inch	
		Quantity	- V / Ph / Hz	1
	Blower Motor	Power Supply	V / Ph / Hz	380-400 / 3 / 60
E		Type	-	Induction
Evaporator		Quantity	-	1
		HP	-	10
		IP	-	IP55
	Air Filter Type	-	-	Disposable Air Filter
		Туре	-	Corrugated AI Fin with Inner grooved copper coil
	Coil	Tube Dia / No of row / FPI	-	3/8″/4/15
		Face Area	SQ.FT	17.22
	_	Туре	-	Propeller / Direct Driven
	Fan	Quantity	-	6
		Dia of Fan	Inch	26"
		Туре	-	Corrugated AI Fin with Inner grooved copper coil
		Tube Dia / No of row / FPI	-	3/8" / 3 / 15 3/8" / 4 / 15
	Coil	Number of Coils	-	4
Condenser		Face Area / Coil	SQ.FT	23.24
		Total Face Area	SQ.FT	46.48
		Power Supply	V / Ph / Hz	208-230 / 1 / 60
		HP	-	0.75
	Fan Motor	IP	-	IP20
		Motor RPM	-	1,130
Motor Type		-	ECM	
Condensate Drain Size		Inch	1″	
		Length	mm	3,945
Dimensions		Width	mm	2,150
		Height	mm	2,075
Unit Weight			kg	2,020

MEMO	

