2022 LG INVERTERDIRECT DRIVE PACKAGE



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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)

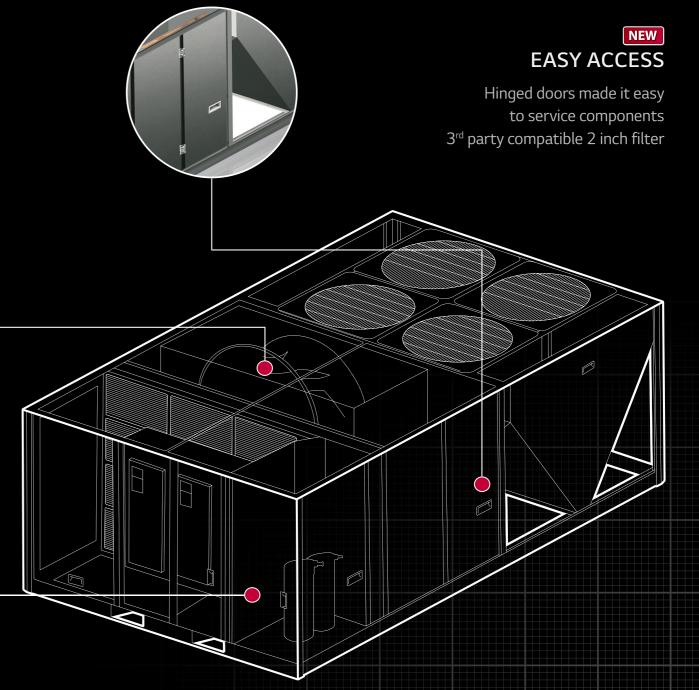


NEW

ULTIMATE PERFORMANCE

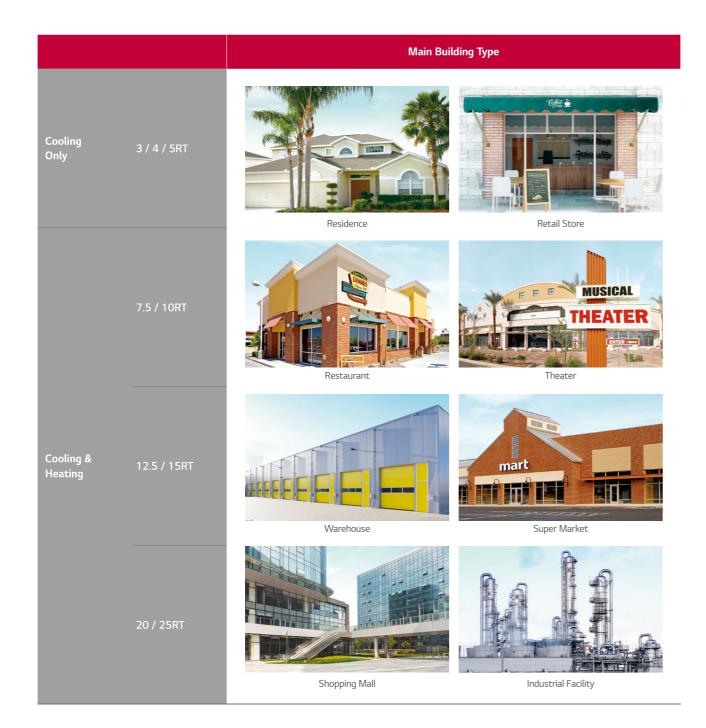
Superior efficient ultimate inverter compressor Applied BLDC motors for all fans Superior level IEER 18.3 (25RT) & 19.0 (20RT)





LINE UP

DIRECT DRIVE PACKAGE



Ø, V, Hz							
1, 220 - 240, 50 / 1, 220, 60	3, 220 ~ 240, 50/60	3, 380 - 415, 50/60	3, 460, 60				
AK-Q036GH50, AK-Q036GD50 AK-Q048GH50, AK-Q048GD50 AK-Q060GH50, AK-Q060GD50							
	■ QLC	O.G.					
	AK-W090BC00 AK-W120BC00	AK-W090LC00 ¹⁾ AK-W120LC00 ¹⁾					
	AK-W150BC00 AK-W180BC00	AK-W150LC00 ¹⁾ AK-W180LC00 ¹⁾					
	AK-W240BC00 AK-W300BC00	AK-W240LC00 AK-W300LC00	AK-W240DC00 AK-W300DC00				

¹⁾ Development and AHRI certification are scheduled by July, '21

Economizer [PKEMD1CA0]



* Economizer can be used from 7.5 to 25 tons.



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

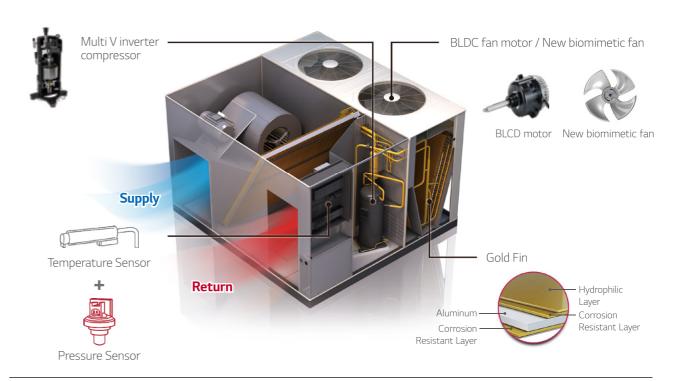






ADVANCED KEY COMPONENTS FOR HIGH ENERGY EFFICIENCY

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

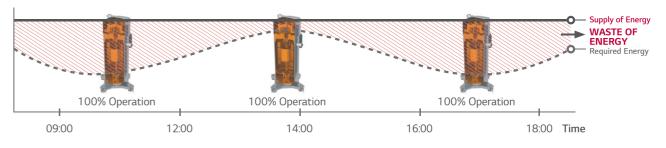


EXCELLENT PARTIAL LOAD EFFICIENCY

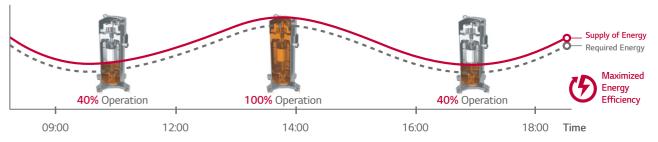
Inverter compressor maximizes energy efficiency through adjusting energy supply as required.

Energy saving concept comparison

Constant Speed Compressor



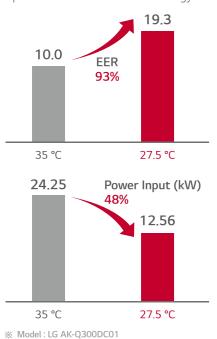
Inverter Compressor

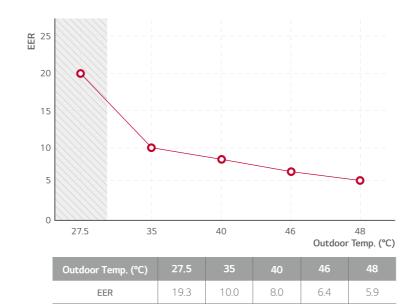


9 SUPERIOR EFFICIENCY

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.





12.56

24.25

30.12

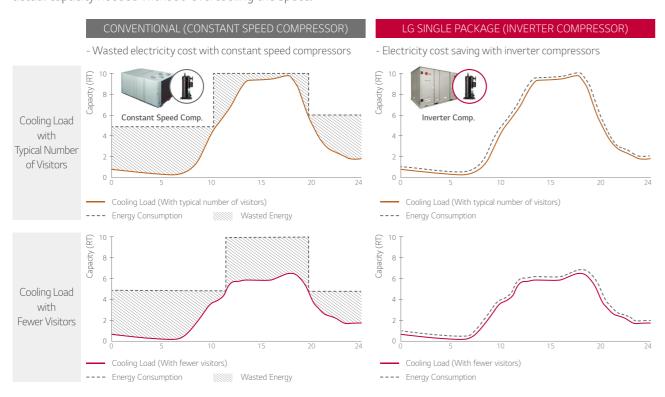
35.98

37.1

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.

Power Input (kW)



SUPERIOR EFFICIENCY HEAT PUMP

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

CONVENTIONAL

- Superior initial investment cost by installing electric heater for heating
- Superior electricity charges by auxiliary device



Additional Cost
(About 5% of product price)



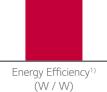


- 1) Energy efficiency is based on the following conditions:
- Indoor Temp. 21.1°C (70°F) DB / 15.6°C (60°F) WB
- Outdoor Temp. 8.3°C (47°F) DB / 6.1°C (43°F) WB
- 2) Specification: 25kW / 460V / 3Ø / 60Hz

NEW INVERTER

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





3.38

Unit (Heat pump)

(VV /

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

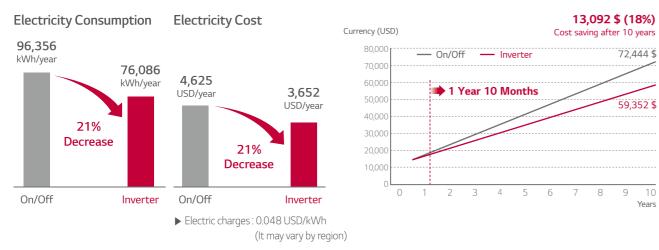
(4) SUPERIOR EFFICIENCY

ANNUAL ENERGY SAVINGS ESTIMATION PAYBACK (KSA, RIYADH)

compared to on/off model.

(KSA, RIYADH)

your investment cost after 1 year 10 months.



[Condition]

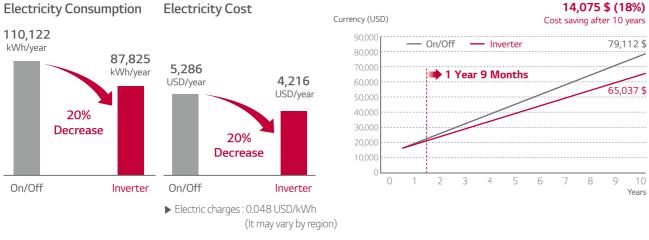
- Capacity: 20RT Single Package
- Operation time : 24 hours
- Cooling partial load and power consumption calculated based on yearly weather data (target indoor temperature: 24°C)
- * This result can be different depending on actual environment

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]

10

- 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)

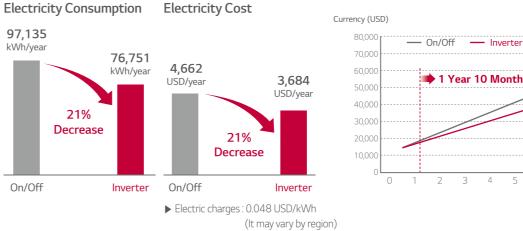
Electricity consumption are expected to decline by 21 % compared to on/off model.

(KSA, DAMMAM)

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

13,148 \$ (18%)

Cost saving after 10 years



[Condition]

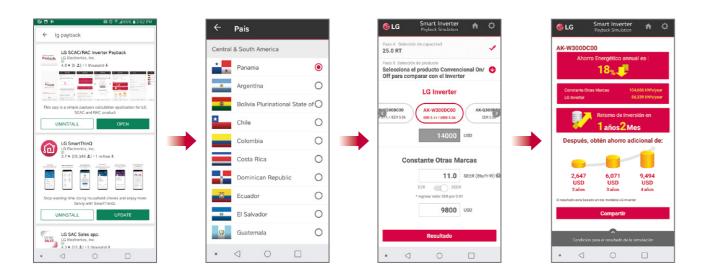
- Capacity: 20RT Single Package
- Operation time : 24 hours
- Cooling partial load and power consumption calculated based on yearly weather data (target indoor temperature: 24°C)
- * This result can be different depending on actual environment

72,822\$ 1 Year 10 Months 59,674\$

(4) SUPERIOR EFFICIENCY

APPLICATION - LG INVERTER PAYBACK APP

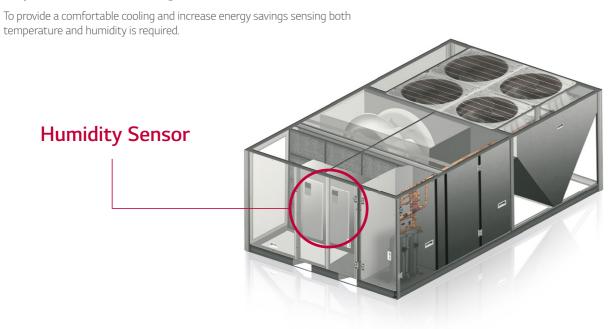
You can easily simulate on mobile via payback app. (Install "LG SCAC / RAC Inverter Payback")



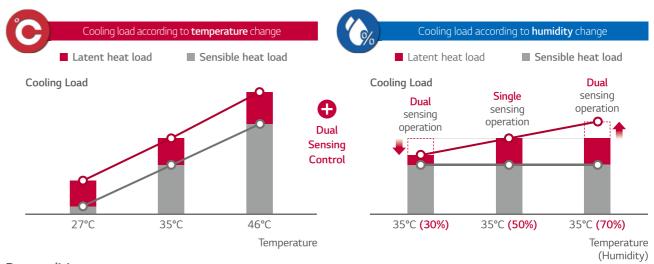
DUAL SENSING CONTROL

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

Why do we need dual sensing?



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



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

- Comfortable environment



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

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



NEW INVERTER



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

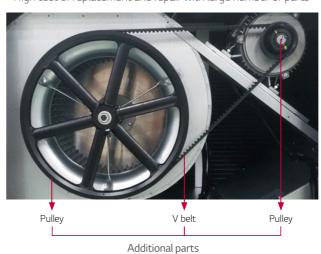


DIRECT DRIVE FAN MOTOR

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



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)

Easy installation

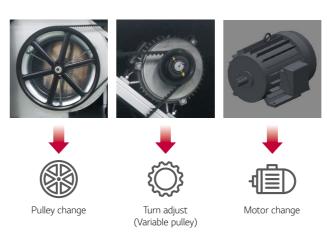
By applying a high static pressure motor, It has wide E.S.P coverage and easy to set the air volume.

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

NEW INVERTER

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

Simple setup



※ ESP Setting guide (Wired Remote Controller): - Standard III (PREMTB100/10) : Menu \rightarrow Setting \rightarrow Installer \rightarrow ESP setting

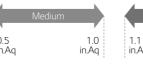
Motor operation range (Based on 9,200 CFM)

0 in.Aq Largest 10HP BLDC Motor 2.0 in.Aq

- Standard II (PREMTB001/01) : 0 Button click \rightarrow 03 : XX \rightarrow ESP setting

Motor operation range (Based on 9,400 CFM)



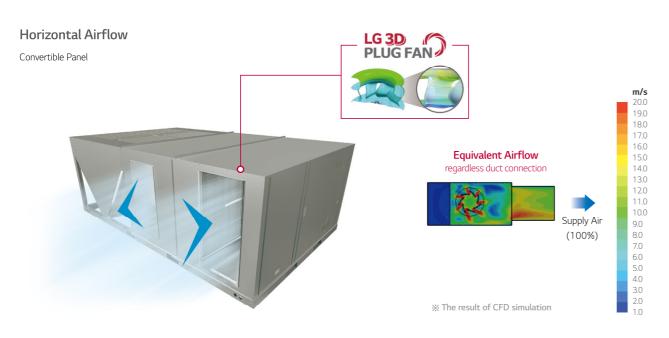




© CONVENIENCE

CONVERTIBLE DUCT CONNECTION

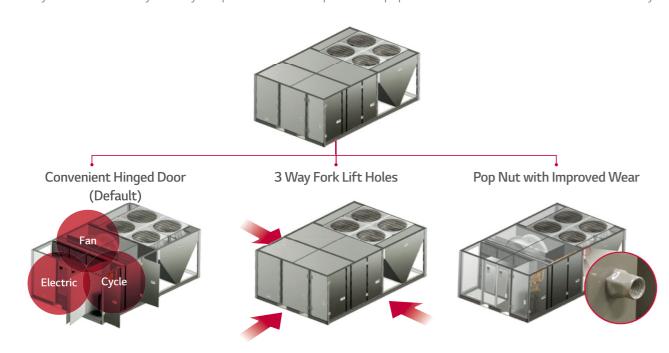
*One model allows duct installation in various directions and can be installed on various sites. Additionally, LG 3D PLUG FAN minimizes the flow resistance and enables to take out the air in all directions, so there is no air loss.



^{*} With one model, It can be installed either horizontally or Toply. However, competitors have separate models depending on the type of connection.

ENHANCED STRUCTURE

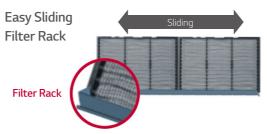
By applying the hinged door, Installation & maintenance working time has been shortened. In addition, 3 way fork lift holes easy to carry the product in various places and pop nut structure increases screw wear reliability.



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.





Easy Cleaning with Water



Replaceable 2 inch Filter¹⁾



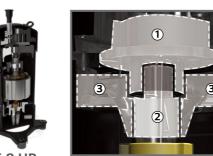
- 1) Specification: 25 x 20 (in.) x 6 (EA)
- $\ensuremath{\ensuremath{\%}}$ When 2inch filter is applied, Static pressure drops by 0.142 in.Aq.

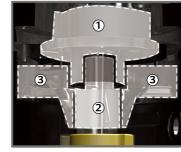


ULTIMATE INVERTER COMPRESSOR

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





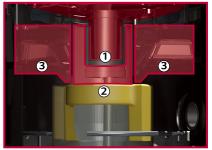


- (1) Material: PTFE¹⁾
- ①+② Structure: Inner Bearing
- 3 Supporter
- 1) PTFE: Polytetra fluoro ethylene
- 2) PEEK: Polyether ether ketone ※ Conventional : JBA068MAC (6.8 HP) x 2EA in product
- New inverter: JBA096MAC (9.6 HP) x 2EA in product

NEW COMPRESSOR

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







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

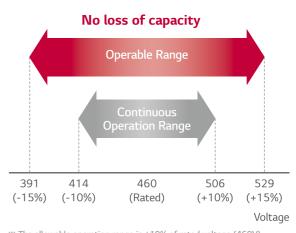
PROTECTION FOR VOLTAGE FLUCTUATION

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



Product Protection



* The allowable operation range is ±10% of rated voltage (460V).

19

* 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



 $\ensuremath{\ensuremath{\%}}$ Verification of corrosion resistance performance. Black Fin's performance of corrosion resistance is improved based on Conventional Fin.

SST (Salt Spray Test)

Test Process





Test process is conducted according to ISO 9227.

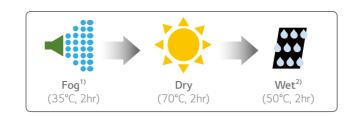
1) Salty water concentration: NaCl aqueous solution (5%)

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



CCT (Cyclic Corrosion Test)

Test Process

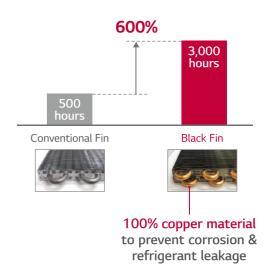




Test process is conducted according to ISO 14933.

- 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)



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.

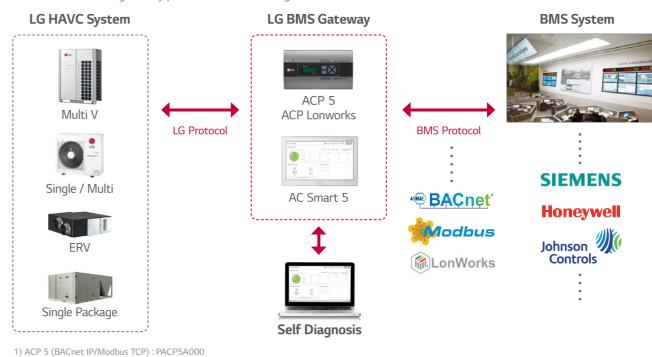


Appealing Design Conventional New



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.



ACP LonWorks (Modbus) Interface : PLNWKB000

ECONOMIZER (MODEL: PKEMD1CA0)

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

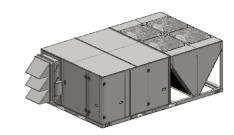
FUNCTION

- 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



SPECIFICATION

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



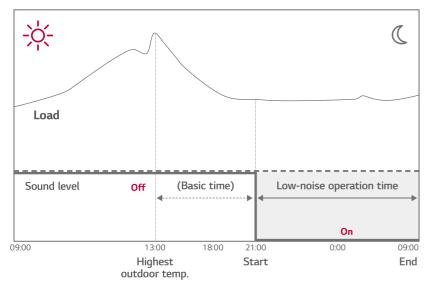
CUSTOMIZED CONTROL

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

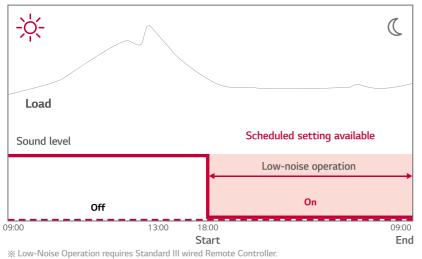
Outdoor Unit setting only



Only outdoor unit dip switch setting is possible.

New Inverter

Standard III wired Remote Controller setting possible

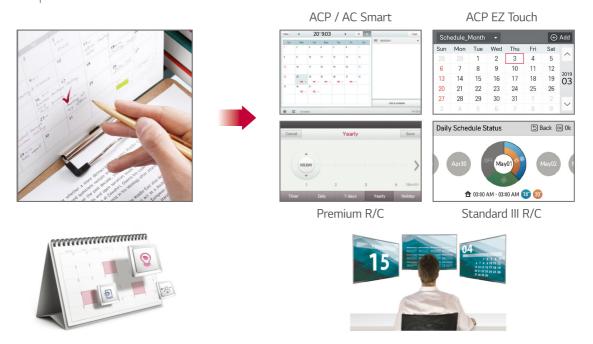


Can be easily activated in the remote controller.

Back OK OK Low Noise Mode Time □ Back OK OK Function ODO nemgerani ivoise neuuction Start Start Start End AM/PM Hour Minute AM/PM Defrost Mode Smart Load Control Off) Low Noise Mode Time Advanced fan speed "Auto"

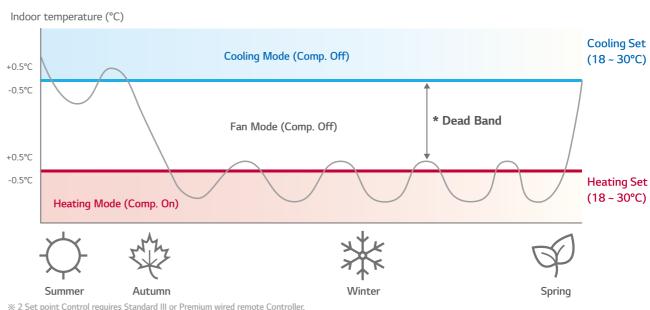
EASY SCHEDULING

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.



- * 2 Set point Control requires Standard III or Premium wired remote Controller.
- Model: PREMTB100(Standard III), PREMTA000 / PREMTA000A / PREMTA000B (Premium)
- * Minimum temperature gap : Setting value (0 ~ 5°C)

SPECIFICATION

COOLING ONLY (Horizontal Flow)



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

Nominal Capacity			RT	3	4	5
Model Name				AK-C03620	AK-C04820	AK-C06020
	Net Canacity	Net Capacity		10.26	13.50	17.25
Cooling Capacity	rvet capacity		Btu/h (Rated/Max)	35,000	46,500	59,200
Cooling Capacity	Gross Canacity	Gross Capacity		10.55	14.07	17.58
	Gross Capacity			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	А	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
		W×H×D	mm	1,280 × 1,065 × 1,110	1,280 × 1,065 × 1,110	1,280 × 1,065 × 1,110
Dimensions		W×H×D	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
Deficement	Precharged Am	ount (A-circuit)	g	3,600	3,600	3,600
Refrigerant	Precharged Am	Precharged Amount (B-circuit)				
	Control		-	EEV	EEV	EEV
Defricement Oil	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
Indoor Side Fan	Diameter		mm (inch)	Direct	Direct	Direct
IIIdooi Side Faii	Air Flow Rate	Nominal	m³/min	34.0	45.3	49.8
	All I low Nate	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
Fan Tyr	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	1		-	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

Nominal Capacity		RT	7.5	10	
Model Name	Model Name		-	AK-Q0909C01	AK-Q1209C02
	Not Canacity	Net Capacity -		26.4	36.6
Cooling Capacity	Net Capacity		Btu/h (Rated/Max)	90,000	125,000
cooming Capacity	Gross Capacity	Constitution of the Consti		27.5	38.4
Gross Capacity			Btu/h (Rated/Max)	94,000	131,000
Power Input	Cooling		kW	7.50	10.60
ER			Btu/Wh	12.0	11.8
SEER			Btu/Wh		
Power Supply			V, Ø, Hz	400, 3, 60	400, 3, 60
Running Current	Cooling	Rated	А	11.8	16.3
Wiring Connections	Power Supply C	Cable (Included Earth)	No. x mm ²	4C × 8.4	4C × 8.4
	ı	W×H×D	mm	2,250 × 1,106 × 1,130	2,230 × 1,237 × 1,958
Dimensions W x H x D		W×H×D	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			-		
(#2, B Cycle)	Motor Output		W x No.		
	Туре		-	R410A	R410A
	Precharged Am	ount (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	
Outdoor Side Heat Exchanger Fin Type		-	Gold fin / Wide Louver plus	Gold fin / Wide Louver plus	
2.1.61.5	Fan Type		-	Propeller	Propeller
Outdoor Side Fan	Motor Type		-	BLDC	BLDC
Sound Pressure Level	Cooling	Rated	dB(A)	70	75
Drain Connection Size			-	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





Nominal Capacity		RT	12.5	15	
Model Name			-	AK-Q1509C02	AK-Q1809C02
Net Capacity			kW (Rated/Max)	40	52.5
			Btu/h (Rated/Max)	136,000	180,000
Cooling Capacity	Cooling Capacity		kW (Rated/Max)	41.5	54.2
	Gross Capacity		Btu/h (Rated/Max)	AK-Q1509C02 40 (Max)	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	А	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		W×H×D	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
Defricement	Precharged Amo	ount (A-circuit)	g	13000.0	9000.0
Refrigerant	Precharged Amount (B-circuit)				9000.0
	Control		-	EEV	EEV
Defricement Oil	Туре		-	FVC68D	FVC68D
Refrigerant Oil	Charged Volume	2	cc x No.	1,200 × 1	1,200 × 1
	Туре		-	Sirocco Fan	Sirocco Fan
Indoor Side Fan	Diameter		mm (inch)	Belt	Belt
Indoor side Fair	Air Flow Rate	Nominal	m³/min	141.6	169.9
	All Flow Rate	Nominal	ft³/min	5,000	6,000
Dehumidification Rate	Dehumidification Rate		ℓ/h	15.6	20.7
Outdoor Side Heat Exchanger			-		Gold fin / Wide Louver plus
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





Nominal Capacity		RT	20	25		
Model Name				AK-Q2409C01	AK-Q3009C01	
Net Capacity			kW (Rated/Max)	70.6	80.9	
Cooling Capacity	Thet capacity		Btu/h (Rated/Max)	241,000	276,000	
eooiing Capacity	Gross Capacity			73.6	85	
	Gross Capacity		Btu/h (Rated/Max)	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	А	34.0	42.0	
Wiring Connections	Power Supply C	Cable (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 H x D		W×H×D	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, A Cycle)	Motor Output		W x No.	5,300 × 1	5,300 × 1	
Compressor Type			-	HSS DC SCROLL	HSS DC SCROLL	
(#2, B Cycle)	Motor Output	Motor Output		5,300 × 1	5,300 × 1	
	Туре		-	R410A	R410A	
	Precharged Am	recharged Amount (A-circuit)		12000.0	12000.0	
Refrigerant	Precharged Amount (B-circuit)			12000.0	12000.0	
	Control		-	EEV	EEV	
	Туре		-	FVC68D	FVC68D	
Refrigerant Oil	Charged Volum	е	cc x No.	1,400 × 1	1,400 × 1	
	Туре		-	Sirocco Fan	Sirocco Fan	
	Diameter		mm (inch)	Belt	Belt	
ndoor 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 Fin Type		-	Gold fin / Wide Louver plus	Gold fin / Wide Louver plus		
Outdoor Side Fan	Fan Type		-	Propeller	Propeller	
	Motor Type		-	BLDC	BLDC	
Sound Pressure Level	Cooling	Rated	dB(A)	85	85	
Drain Connection Size			-	Female NPT 1"	Female NPT 1"	
Operation Range (Outdoor Temperature)	eration Range Cooling Min May		°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			RT	7.5	10	15
Model Name				AK-W110LH00	AK-W130LH00	AK-W160LH00
Not Capacity			kW (Rated/Max)	26.4 / 34.6	34.3 / 38.1	51.0 / 64.5
Cooling Conscitu	Net Capacity		Btu/h (Rated/Max)	90,000 / 118,000	117,000 / 130,000	174,000 / 220,000
Cooling Capacity	Cross Capacity	Gross Capacity		27.0 / 35.2	35.2 / 39.0	52.6 / 66.1
	GIOSS Capacity			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	ı		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	А	11.8	15.9	23.4
Wiring Connections	Power Supply C	Cable (Included Earth)	No. x mm ²	4C × 13.3	4C × 13.3	4C × 21.2
	I .	WxHxD	mm	1,130 × 1,242 × 2,250	1,130 × 1,242 × 2,250	2,230 × 1,242 × 2,400
Dimensions		W×H×D	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 Type			-	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 Type			-			HSS DC SCROLL
(#2, B Cycle) Motor Output	tor Output				5,300 x 1	
Туре			-	R410A	R410A	R410A
	Precharged Am	Precharged Amount (A-circuit)		9000	9000	5200.0
Refrigerant	Precharged Am	Precharged Amount (B-circuit)				5200.0
	Control		-	EEV	EEV	EEV
	Туре		-	FW68D	FW68D	FW68D
Refrigerant Oil	Charged Volum	ne	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
2.44	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			-	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





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Nominal Capacity		RT	20	25	
Model Name				AK-W270LH00	AK-W320LH00
Net Capacity		kW (Rated/Max)	70.0 / 90.3	81.0 / 101.1	
			Btu/h (Rated/Max)	240,000 / 308,000	276,000 / 345,000
Cooling Capacity	Gross Capacity	San Caracita		72.3 / 92.3	83.6 / 103.8
	GIOSS Capacity		Btu/h (Rated/Max)	246,900 / 314,900	285,200 / 354,200
Power Input	Cooling		kW	21.3 / 32.1	26.0 / 39.2
EER			Btu/Wh	11.3	10.6
SEER			Btu/Wh	19.0	18.3
Power Supply			V, Ø, Hz	380~415, 3, 50/60	380-415, 3, 50/60
Running Current	Cooling	Rated	А	33.0	40.0
Wiring Connections	Power Supply C	able (Included Earth)	No. x mm ²	4C × 33.6	4C × 33.6
		WxHxD	mm	2,230 × 1,242 × 3,520	2,230 × 1,242 × 3,520
Dimensions W x H x D		W×H×D	inch	87-25/32 × 48-29/32 × 138-19/32	87-25/32 × 48-29/32 × 138-19/32
Net Weight		kg (lbs)	915 (2,017)	915 (2,017)	
Compressor	Туре		-	HSS DC SCROLL	HSS DC SCROLL
(#1, A Cycle)	Motor Output		W x No.	5,500 × 1	5,500 × 1
Compressor Type (#2, B Cycle) Motor Output			-	HSS DC SCROLL	HSS DC SCROLL
			W x No.	5,500 × 1	5,500 × 1
	Туре		-	R410A	R410A
	Precharged Am	recharged Amount (A-circuit)		9000.0	9000.0
Refrigerant	Precharged Amount (B-circuit)			9000.0	9000.0
	Control		-	EEV	EEV
2.6:	Туре		-	FW68D	FW68D
Refrigerant Oil	Charged Volume	2	cc x No.	1,500 × 1	1,500 × 1
	Туре		-	Plug Fan	Plug Fan
	Diameter		mm (inch)	Direct	Direct
Indoor Side Fan	A: EL D.	Nominal	m³/min	227	261
	Air Flow Rate	Nominal	ft³/min	8,000	9,200
Dehumidification Rate		ℓ/h	24.1	30.1	
Outdoor Side Heat Exchanger Fin Type		-	Black fin / Wide Louver plus	Black fin / Wide Louver plus	
Fan Type			-	Propeller	Propeller
Outdoor Side Fan	Motor Type		-	BLDC	BLDC
Sound Pressure Level	Cooling	Rated	dB(A)	77	77
Drain Connection Size		-	Male NPT 1"	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)

^{*} 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.