

# 2023 LG Single Package Solution

## Tropical

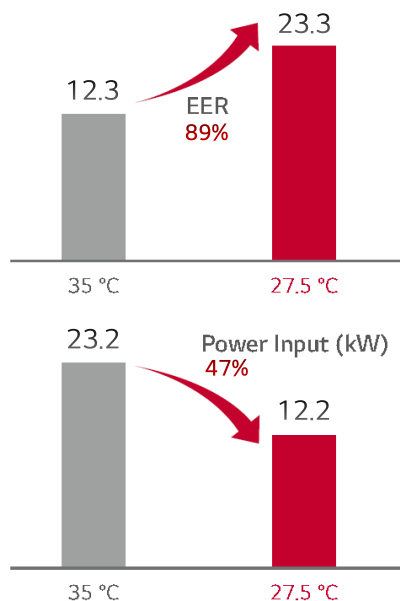


## WHY LG INVERTER

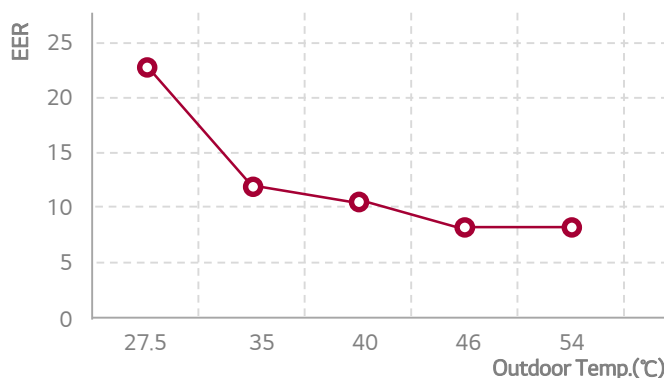
# SUPERIOR EFFICIENCY

## 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



※ Model : AK-W320LH00



ODU Temp.(°C)	27.5	35	40	46	54
EER*	23.3	12.3	11.2	8.6	8.6
Power Input(kW)	12.2	23.2	25.5	31.7	21.2

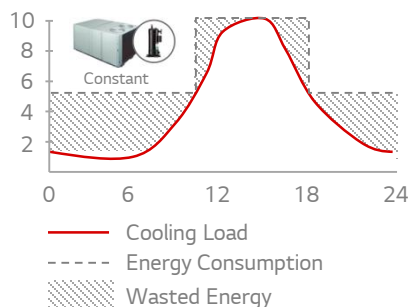
\*EER : Energy Efficiency Ratio(Btu/Wh)

## Electricity Cost Saving

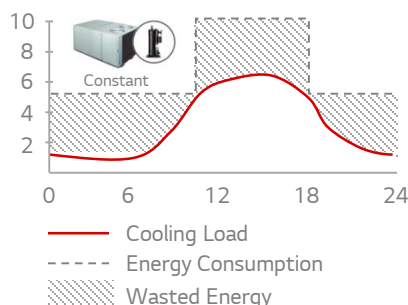
The inverter compressor can remove wasted energy by responding to time-specific loads, situation-specific loads, and seasonal load fluctuations

### CONVENTIONAL

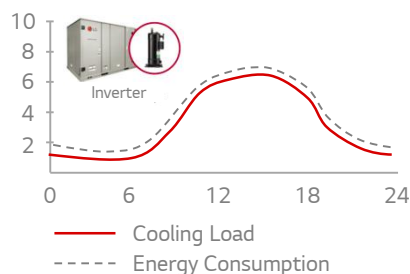
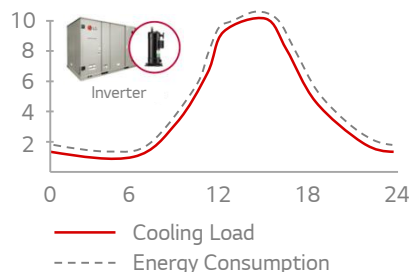
**High-Cooling Load**  
Summer Season  
Large Visitors



**Low-Cooling Load**  
Other Season  
Small Visitors



### INVERTER COMPRESSOR



## CONVENIENCE

# DIRECT DRIVE PACKAGE

Heat Pump Only

## Easy Installation

By applying a high static pressure motor, it has wide E.S.P coverage and easy to set the air volume setting RPM by simple touch on remote Control to change airflow rate

## Easy Maintenance

Beltless direct drive system both side of indoor and outdoor is easy to maintain and cost effective

### EASY E.S.P. CONTORL



### Easy Air Volume Adjustment

External Static Pressure

0.0  
inAq

(Largest 10HP BLDC Motor)

Max 2.0  
inAq

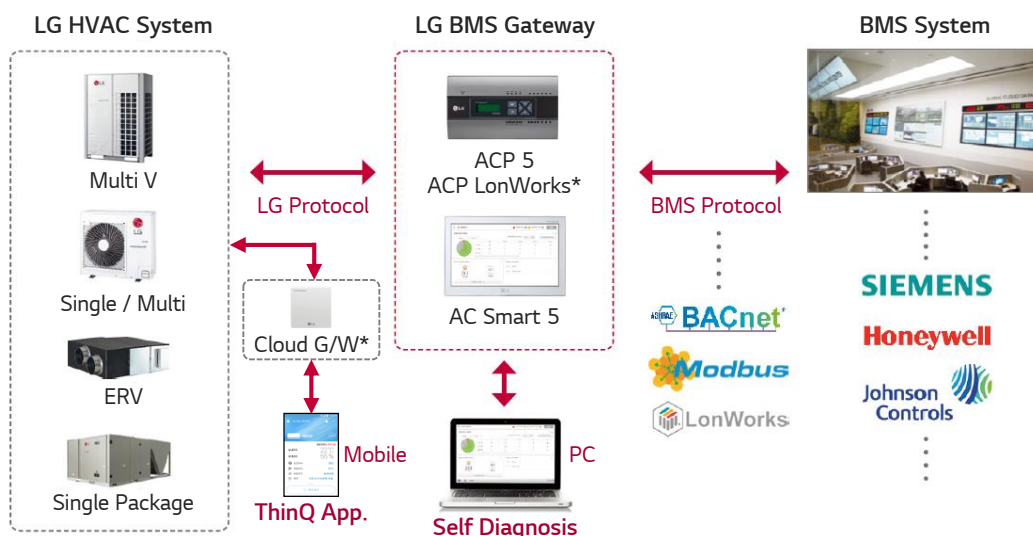
### DIRECT DRIVE MOTOR



- ✓ Variable Speed Plug Fan
- ✓ Does not Require Additional VFD
- ✓ No Need to Adjust Pulley and Belt
- ✓ No Need to Grease
- ✓ Low Cost of Repair with Fewer Parts

## 3<sup>rd</sup> 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



\*ACP 5 (BACnet IP/Modbus TCP) : PACP5A000 / ACP LonWorks (Modbus) Interface : PLNWKB000  
Cloud Gateway : PWFMDB200




SINGLE PACKAGE **NEW**

# LINE-UP(Inverter)

**Colling Only** Indoor/Outdoor : BLDC Motor\* (W x H x D, mm)

Type	Phase	Power Supply	Capacity Index (RT)		
			3	4	5
C/O <b>Black Fin</b> (Condenser)	1Ø	220-240V 50/60Hz	 (1,280x1,065x1,110)		

**Cooling & Heating** Indoor/Outdoor : BLDC Motor\*

Type	Phase	Power Supply	Capacity Index (RT)					
			7.5	10	12.5	15	20	25
H/P <b>Black Fin</b> (Condenser)	3Ø	380-415V 50/60Hz	 (1,130x1,242x2,250)		 (2,230x1,242x2,400)		 (2,230x1,242x3,520)	

\*BLDC : Brushless Direct Current Motor

**NEW**

## CONVENIENCE

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



**NEW**

## ULTIMATE PERFORMANCE

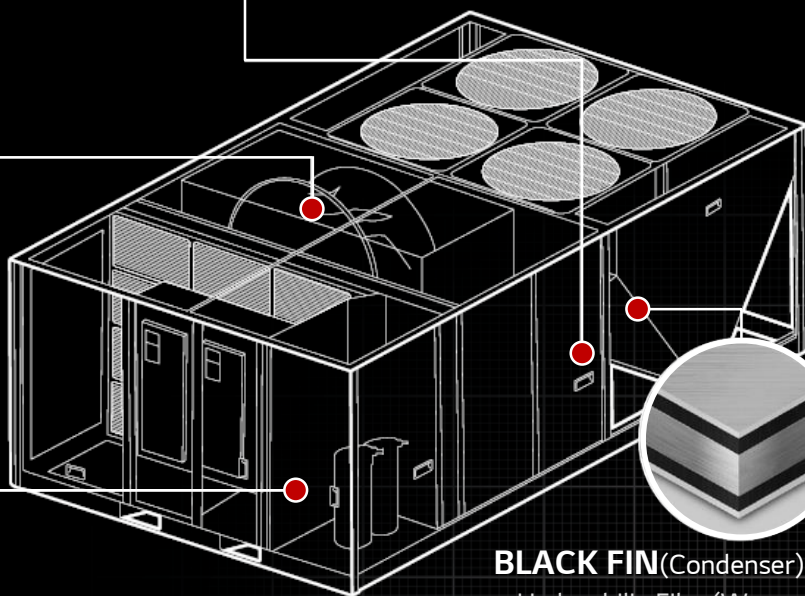
- Superior efficient ultimate inverter compressor with BLDC fan motors



**NEW**

## EASY ACCESS

- Hinged doors made it easy to service components
- 3rd party compatible 2 inch filter



## BLACK FIN(Condenser)

- Hydrophilic Film (Water Flow)
- Corrosion Resistant Layer



SINGLE PACKAGE NEW

LINE-UP(Non-Inverter)





Cooling Only

Small Capacity

Direct Drive




Belt Drive

(W x H x D, mm)

Type	Phase	Power Supply	Capacity Index (RT)				
			4	5	6	7.5	10
C/O	1Ø	220-240V 50/60Hz	 (1,790x1,049x1,024)	 (1,790x1,160x1,024)	 (2,028 x1,160x1,024)	 (2,265x1,383x1,505)	


Med-size Capacity

Belt Drive

Type	Phase	Power Supply	Capacity Index (RT)				
			12.5	15	18	20	25
C/O	3Ø	380-415V 50Hz	 (2,092×1,520×2,030)	 (2,548×1,755×2,150)	 (3,312×2,100×2,150)		

Large Capacity

Belt Drive

Type	Phase	Power Supply	Capacity Index (RT)		
			30	35	40
C/O	3Ø	380-415V 50Hz	 (3,945x2,150x2,400)		





**LG Electronics**

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



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