

#### **LG Electronics**

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# LG INVERTER SINGLE PACKAGE (HEAT PUMP)



# WHY LG INVERTER SINGLE PACKAGE?

NEW

#### WORLD'S FIRST 25RT HEAT PUMP

LG launches the world's first 25RT Inverter Heat pump Single package

#### NEW

#### **CONVENIENCE**

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



#### NEW

#### **ULTIMATE PERFORMANCE**

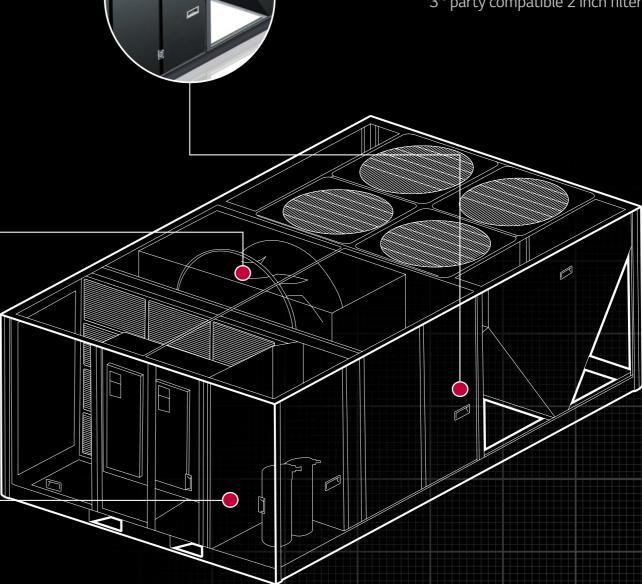
High efficient ultimate inverter compressor Applied BLDC motors for all fans Highest level \*IEER 18.3

\* The value is based on 25RT model.





Hinged doors made it easy to service components 3<sup>rd</sup> party compatible 2 inch filter





# **HIGH EFFICIENCY**

Highest Level IEER
High Partial Load Efficiency
Energy Savings with Linear Control
High Efficiency Heat Pump
Annual Energy Savings Estimation
Payback
Dual Sensing Control



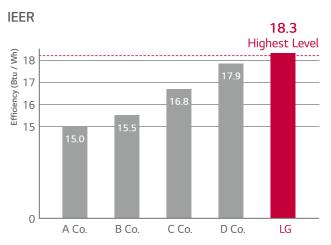




#### HIGHEST LEVEL IEER

LG inverter single package achieved a high efficiency of IEER 18.3 with all inverter technology.





- Control method of cooling operation
- A Company : 4 stage control D Company : 2 stage control
- B Company : 4 stage control LG : Inverter control
- C Company : 2 stage control

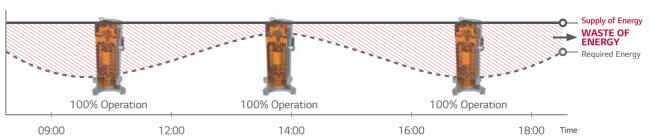
- $\ensuremath{\ensuremath{\%}}$  The values are based on registered models of AHRI ('19.02)
- AHRI Type : SP-A, HSP-A
- Capacity : 25RT

#### HIGH PARTIAL LOAD EFFICIENCY

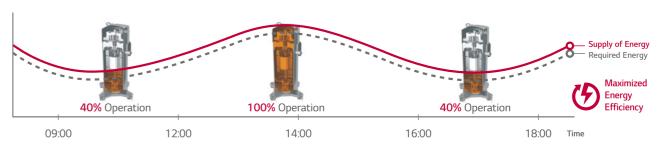
Inverter compressor maximizes energy efficiency, by adjusting energy supply as required.

#### Energy saving concept comparison

Constant Speed Compressor



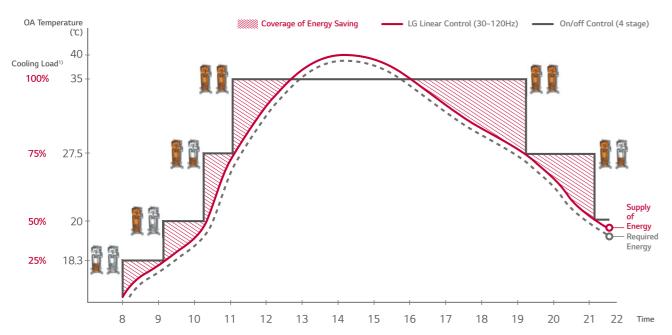
#### Inverter Compressor



## **(b)** HIGH EFFICIENCY

#### **ENERGY SAVING WITH LINEAR CONTROL**

New inverter single package be operated linearly with wide operating range(30~120Hz). It provides optimized cooling and energy saving at the same time.



1) Cooling load is standard of AHRI 340/360 (IEER)

100% Load = 35% (95%), 75% Load = 27.5% (81.5%), 50% Load = 20% (68%), 25% Load = 18.3% (65%)

#### HIGH EFFICIENCY HEAT PUMP

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

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



Additional Cost (About 5% of product price)



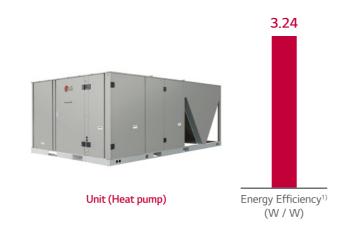
Unit (Cooling only) + Electric Heater<sup>2)</sup>



- 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 / 3 $\Phi$  / 60Hz

#### **NEW INVERTER**

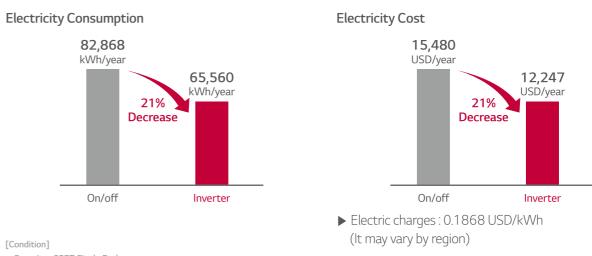
- No initial investment due to no need for heater installation
- Annual energy savings with high efficiency heat pump system



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

#### ANNUAL ENERGY SAVINGS ESTIMATION (Panama City)

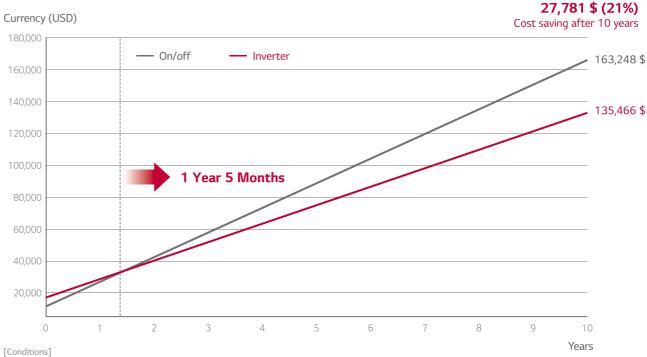
Electricity consumption are expected to decline by 21% compared to on/off model.



- Capacity: 25RT Single Package
- Operating time : 08:00~20:00
- 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

### PAYBACK (Panama City)

If you purchase the LG smart inverter, You can get back your investment cost after 1 Year 5 months.

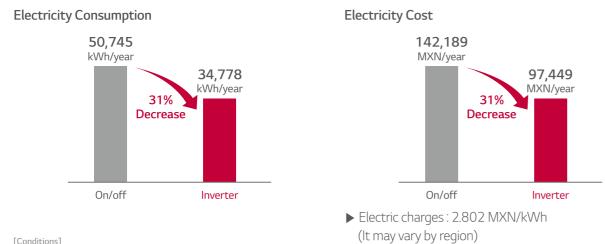


- Capacity: 25RT Single Package
- Operating time : 08:00~20:00
- \* This result can be different depending on actual environment

# **(b)** HIGH EFFICIENCY

#### ANNUAL ENERGY SAVINGS ESTIMATION (Mexico, Monterrey)

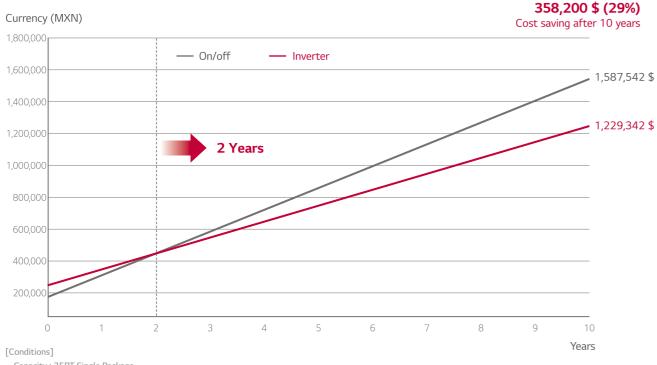
Electricity consumption are expected to decline by 31% compared to on/off model.



- Capacity: 25RT Single Package
- Operating time : 08:00~20:00
- 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

#### PAYBACK (Mexico, Monterrey)

If you purchase the LG smart inverter, You can get back your investment cost after 2 years.

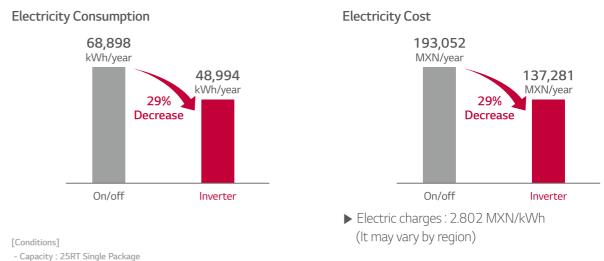


- Capacity: 25RT Single Package
- Operating time : 08:00~20:00
- Cooling partial load and power consumption calculated based on yearly weather data (target indoor temperature:  $24^{\circ}\!\text{C}$ )

\* This result can be different depending on actual environment

#### ANNUAL ENERGY SAVINGS ESTIMATION (Mexico, Cancun)

Electricity consumption are expected to decline by 29% compared to on/off model.



- Operating time : 08:00~20:00
- 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

#### PAYBACK (Mexico, Cancun)

If you purchase the LG smart inverter, You can get back your investment cost after 1 year 8 months



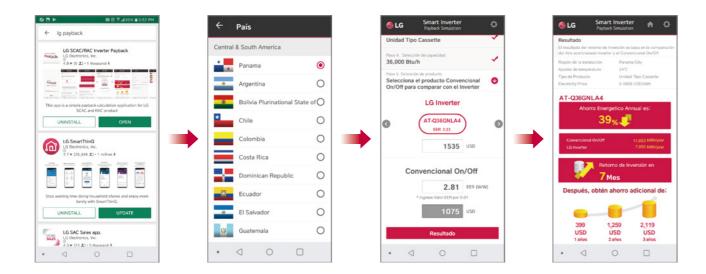
- Capacity: 25RT Single Package
- Operating time : 08:00~20:00
- Cooling partial load and power consumption calculated based on yearly weather data (target indoor temperature :  $24^{\circ}\!\text{C}$ )

\* This result can be different depending on actual environment

## **9** HIGH EFFICIENCY

#### **PAYBACK**

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

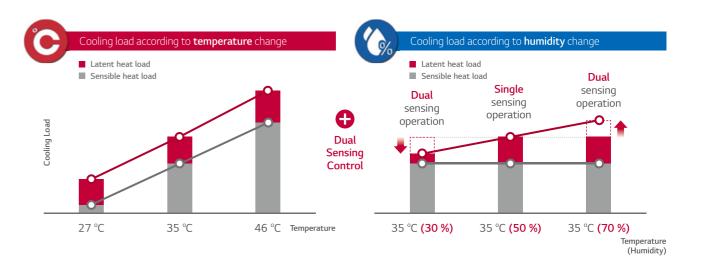


#### **DUAL SENSING CONTROL**

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

#### Why do we need dual sensing?

To operate energy saving and comfort cooling, humidity sensing is required. **Humidity Sensor** 



#### Dry condition

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

- -Excessive latent heat elimination regardless of humidity
- -Waste Energy to eliminate latent heat

# Comfort

#### NEW INVERTER

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



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

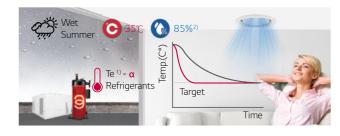
In wet summer season, the system senses the high humidity level and increases operating ratio to decrease humidity level rapidly for making room condition in comfort zone.

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

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



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





# **CONVENIENCE**



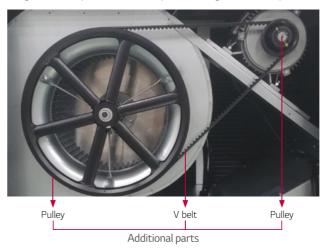
#### DIRECT DRIVE FAN MOTOR

#### Easy maintenance

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

#### CONVENTIONAL

- Adjust pulley and belt periodically
- 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

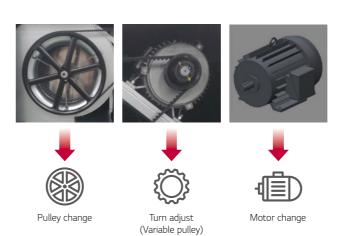
By applying a high static pressure motor, It has wide E.S.P coverage and easy to set the air volume.

#### CONVENTIONAL

- 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





※ ESP Setting guide (Wired Remote Controller):

Motor operation range (Based on 9,200 CFM)

- Standard III (PREMTB100/10) : Menu ightarrow Setting ightarrow Installer ightarrow ESP setting

Motor operation range (Based on 9,400 CFM)



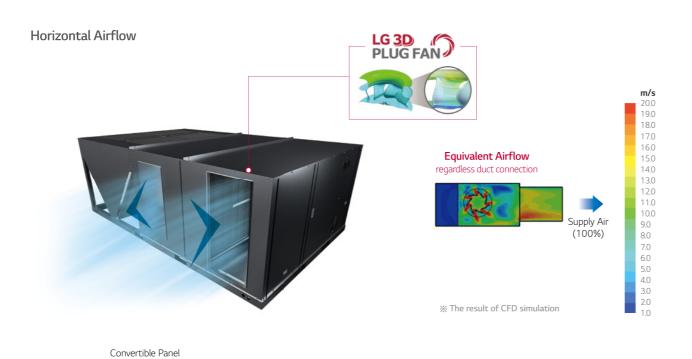
High

0 in Aq Largest 10HP BLDC Motor 2.0 in Aq

# **©** 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.



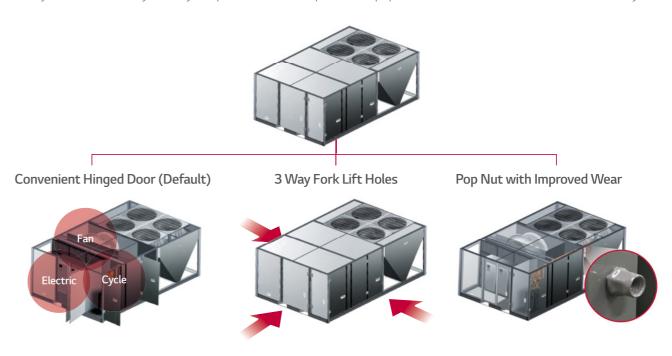
#### Vertical Airflow



<sup>\*</sup> With one model, It can be installed either horizontally or vertically. 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.





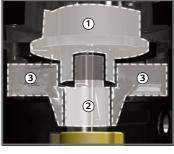
#### **ULTIMATE INVERTER COMPRESSOR**

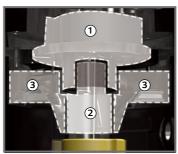
By applying world class technology of Multi V, High efficient and reliable operation has been achieved. 18 years of inverter technology applied to LG new single package.

#### CONVENTIONAL

- Inner bearing type
- Low speed operation with unstable structure







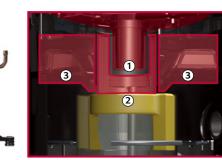




- (1) Material: PTFE 1)
- ①+② Structure: Inner Bearing
- 3 Supporter
- 1) PTFE: Polytetra fluoro ethylene
- 2) PEEK: Polyether ether ketone
- % Conventional : JBA068MAC (6.8 HP) x 2EA in product New inverter: JBA096MAC (9.6 HP) x 2EA in product

#### **NEW COMPRESSOR**

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



- ① Material: PEEK 2) 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** 

#### No loss of capacity Operable Range 414 460 506 529 (-15%) (-10%) (Rated) (+10%) (+15%)

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

# **©** RELIABILITY

#### **BLACK FIN**

The black coating with enhanced epoxy 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's performance of corrosion resistance is improved based on Gold fin.

#### SST (Salt Spray Test)

Test Process

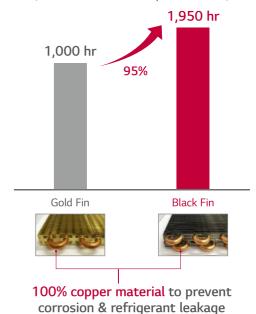


× Process repeated

Test process is conducted according to ISO 9227.

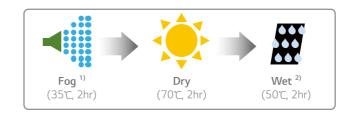
1) Salty water concentration: NaCl aqueous solution (5%)

Test Result (5% Area of defects compared to initial)



#### CCT (Cyclic Corrosion Test)

Test Process





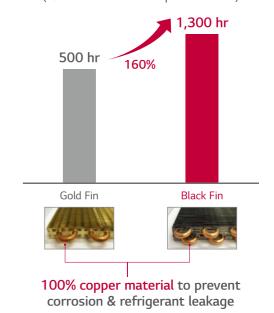
Test process is conducted according to ISO 14933.

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

※ Dry condition changed: 60°C, 4hr → 70°C, 2hr

2) Deionized wat

Test Result (5% Area of defects compared to initial)



#### **CUSTOMIZED CONTROL**

#### **NEW DESIGN REMOTE CONTROLLER**

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



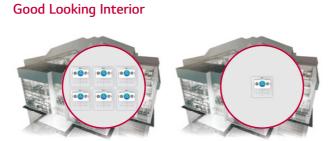


\* Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

#### **GROUP CONTROL**

Group Control is to control multiple units at once. This is the appropriate solution for zoning the big area as a one control zone.



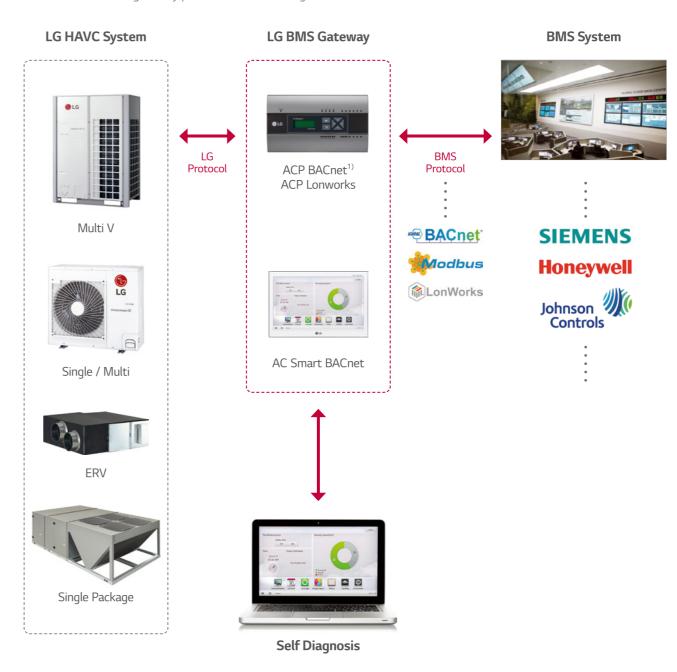


Conventional



#### 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 thanks to smart GUI included.



ACP BACnet (Modbus) Interface : PQNFB17C0
 ACP LonWorks (Modbus) Interface : PLNWKB000

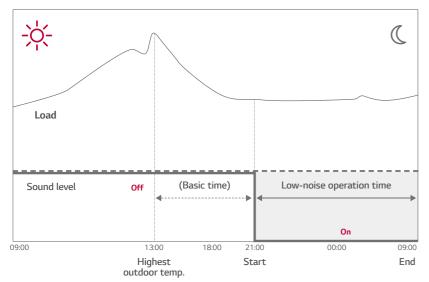
#### **CUSTOMIZED CONTROL**

#### 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

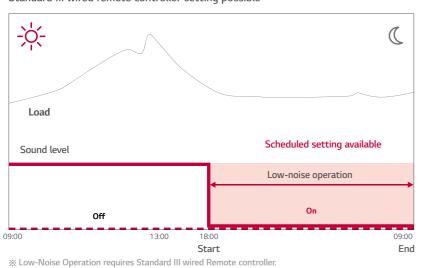
Outdoor Unit setting only



Only outdoor unit dip switch setting is possible.

#### **New Inverter**

Standard III wired remote controller setting possible





Remote controller setting is possible.



Defrost Mode < Step 0 > Smart Load Control Low Noise Mode Time Off > Advanced fan speed "Auto" < Set >



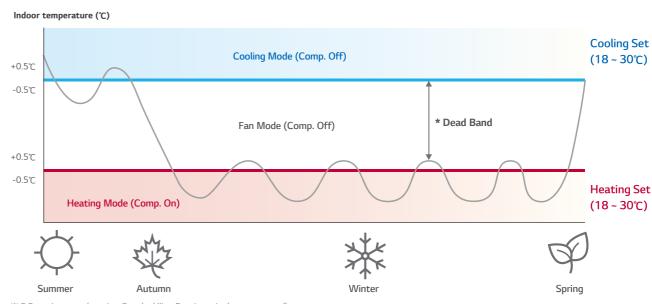
#### **EASY SCHEDULING**

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



#### 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)

<sup>\*</sup> Minimum temperature gap : Setting value (0~5°C)

#### 460 V

Nominal Capac	ity		RT	20	25
Model Name			-	AK-W240DC00	AK-W300DC00
			kW	70.3	
Cooling Capacity	Net Capacity		kcal/h	60,480	69,552
3 , ,			Btu/h	240.000	,
				70.3	AK-W300DC00  80.9 69,552 276,000 80.9 69,552 276,000 10.6 18.3 3.24 26.0 25.0 460, 3, 60 LG Louver 9.52 (3/8) (4 × 44 × 16) × 2 2.01 (21.6) Plug Fan 630 (25) 10.0 261 9,200 Direct HCC DC SCROLL 5,500 × 1 FVC68D 1,500 × 1 FVC68D 1,500 × 1 Wide Louver Plus (Black) 7 (9/32) (3 × 52 × 14) × 2 4.5 (48.3) Propeller Fan 680 (26-25/32) 900 × 4 105 × 4 3,700 × 4 BLDC Inverter Top 30.1 NPT 1" R410A 9.0 9.0 EEV 2,230 × 1,242 × 3,520
Heating Capacity	Net Capacity		kcal/h	60.480	AK-W300DC00  80.9 69,552 276,000 80.9 69,552 276,000 10.6 18.3 3.24 26.0 25.0 460, 3, 60 LG Louver 9.52 (3/8) (4 × 44 × 16) × 2 2.01 (21.6) Plug Fan 630 (25) 10.0 261 9,200 Direct HCC DC SCROLL 5,500 × 1 FVC68D 1,500 × 1 FVC68D 1,500 × 1 Wide Louver Plus (Black) 7 (9/32) (3 × 52 × 14) × 2 4.5 (48.3) Propeller Fan 680 (26-25/32) 900 × 4 105 × 4 3,700 × 4 BLDC Inverter Top 30.1 NPT 1" R410A 9.0 9.0 EEV 2,230 × 1,242 × 3,520 87-25/32×48-29/32×138-19/3; 910 (2,006) 86 86
roading capacity	- rec capacity			240.000	
EER .				11.3	,
				19.0	
				3.38	
201	Cooling			21.3	
ower Input				20.8	276,000 80.9 69,552 276,000 10.6 18.3 3.24 26.0 25.0 460, 3, 60 LG Louver 9.52 (3/8) (4 × 44 × 16) × 2 2.01 (21.6) Plug Fan 630 (25) 10.0 261 9,200 Direct HCC DC SCROLL 5,500 × 1 FVC68D 1,500 × 1 FVC68D 1,500 × 1 FVC68D 1,500 × 1 Wide Louver Plus (Black) 7 (9/32) (3 × 52 × 14) × 2 4.5 (48.3) Propeller Fan 680 (26-25/32) 900 × 4 105 × 4 3,700 × 4 BLDC Inverter Top 30.1
Power Supply	rieating			460, 3, 60	
-ower supply	Ein Timo		V, W, NZ		, ,
			mm (inch)	LG Louver	
ndoor Coil			min (inch)	9.52 (3/8)	
		i × rins per inch) × No.	- (6.2)	(4 × 44 × 16) × 2	
			m² (ft²)	2.01 (21.6)	` /
			-	Plug Fan	<u> </u>
				630 (25)	` /
ndoor Fan	Motor Output			10.0	
	Air Flow Rate			227	
Model Name	ft³/min	8,000	,		
	Drive Type		-	Direct	261 9,200 Direct HCC DC SCROLL 5,500 × 1 FVC68D 1,500 × 1 HCC DC SCROLL
			-	HCC DC SCROLL	
			W × No.	5,500 × 1	,
(#1, A Cycle)			-	FVC68D	FVC68D
	Oil Charge		cc × No.	1,500 × 1	80.9 69,552 276,000 80.9 69,552 276,000 10.6 18.3 3.24 26.0 25.0 460, 3, 60 LG Louver 9.52 (3/8) (4 × 44 × 16) × 2 2.01 (21.6) Plug Fan 630 (25) 10.0 261 9,200 Direct HCC DC SCROLL 5,500 × 1 FVC68D 1,500 × 1 FVC68D 1,500 × 1 FVC68D 1,500 × 1 Wide Louver Plus (Black) 7 (9/32) (3 × 52 × 14) × 2 4.5 (48.3) Propeller Fan 680 (26-25/32) 900 × 4 105 × 4 3,700 × 4 BLDC Inverter Top 30.1 NPT 1" R410A 9.0 9.0 9.0 EEV 2,230 × 1,242 × 3,520 87-25/32×48-29/32×138-19 910 (2,006) 86 86 86 -5 - 48 (23.0-118.4)
	Туре		-	HCC DC SCROLL	10.0 261 9,200 Direct HCC DC SCROLL 5,500 × 1 FVC68D 1,500 × 1 HCC DC SCROLL 5,500 × 1 Wide Louver Plus (Black) 7 (9/32) (3 × 52 × 14) × 2
Compressor	Motor Output		W × No.	5,500 × 1	10.6 18.3 3.24 26.0 25.0 460, 3, 60 LG Louver 9.52 (3/8) (4 × 44 × 16) × 2 2.01 (21.6) Plug Fan 630 (25) 10.0 261 9,200 Direct HCC DC SCROLL 5,500 × 1 FVC68D 1,500 × 1 HCC DC SCROLL 5,500 × 1 FVC68D 1,500 × 1 Wide Louver Plus (Black) 7 (9/32) (3 × 52 × 14) × 2 4.5 (48.3) Propeller Fan 680 (26-25/32) 900 × 4 105 × 4 3,700 × 4 BLDC Inverter Top 30.1 NPT 1" R410A 9.0 9.0
(#2, B Cycle)	Oil Type		-	FVC68D	AK-W300DC00  80.9 69,552 276,000 80.9 69,552 276,000 10.6 18.3 3.24 26.0 25.0 460, 3, 60 LG Louver 9.52 (3/8) (4 × 44 × 16) × 2 2.01 (21.6) Plug Fan 630 (25) 10.0 261 9,200 Direct HCC DC SCROLL 5,500 × 1 FVC68D 1,500 × 1 FVC68D 1,500 × 1 Wide Louver Plus (Black) 7 (9/32) (3 × 52 × 14) × 2 4.5 (48.3) Propeller Fan 680 (26-25/32) 900 × 4 105 × 4 3,700 × 4 BLDC Inverter Top 30.1 NPT 1" R410A 9.0 9.0 9.0 EEV 2,230 × 1,242 × 3,520 87-25/32×48-29/32×138-19/3 910 (2,006) 86 86 86 -5 ~ 48 (23.0~118.4)
	Oil Charge		cc × No.	1,500 × 1	
	Fin Type		-	Wide Louver Plus (Black)	Wide Louver Plus (Black)
0.1.0."		Outer Dia.	mm (inch)	7 (9/32)	AK-W300DC00  80.9 69,552 276,000 80.9 69,552 276,000 10.6 118.3 3.24 26.0 25.0 460, 3, 60 LG Louver 9.52 (3/8) (4 × 44 × 16) × 2 2.01 (21.6) Plug Fan 630 (25) 10.0 261 9,200 Direct HCC DC SCROLL 5,500 × 1 FVC68D 1,500 × 1 FVC68D 1,500 × 1 Wide Louver Plus (Black) 7 (9/32) (3 × 52 × 14) × 2 4.5 (48.3) Propeller Fan 680 (26-25/32) 900 × 4 105 × 4 3,700 × 4 BLDC Inverter Top 30.1 NPT 1" R410A 9.0 9.0 EEV 2,230 × 1,242 × 3,520 87-25/32×48-29/32×138-19/3 910 (2,006) 86 86 86 -5 ~ 48 (23.0~118.4)
Jutdoor Coil	(Row × Colum	n × Fins per inch) × No.	-	$(3 \times 52 \times 14) \times 2$	
			m <sup>2</sup> (ft <sup>2</sup> )	4.5 (48.3)	
			-	Propeller Fan	` /
			mm (inch)	680 (26-25/32)	·
				900 × 4	, ,
Outdoor Fan	·			105 × 4	
sacoor rui	Air Flow Rate			3,700 × 4	
	Drive		-	BLDC Inverter	
		ection	_	Top	
Dehumidification E		.coor	0/h	24.1	'
			2/11	24.1 NPT 1"	
Frain Connection :		ame		R410A	
Refrigerant			-	9.0	
		B-Circuit	кд	9.0	
	Control		-	EEV 2.530	
Dimensions (W ×	H × D)			2,230 × 1,242 × 3,520	
				87-25/32×48-29/32×138-19/32	
Net Weight				910 (2,006)	
				86	
Power Levels	Heating		dB(A)	86	
Operation Range	Cooling	Min. ~ Max.	°C DB (°F DB)	-5 ~ 48 (23.0~118.4)	Wide Louver Plus (Black) 7 (9/32) (3 × 52 × 14) × 2 4.5 (48.3) Propeller Fan 680 (26-25/32) 900 × 4 105 × 4 3,700 × 4 BLDC Inverter Top 30.1 NPT 1" R410A 9.0 9.0 EEV 2,230 × 1,242 × 3,520 87-25/32×48-29/32×138-19/3 910 (2,006) 86 86 -5 ~ 48 (23.0~118.4)
(Outdoor Temperature)	Heating Min. ~ Max.		°C WB (°F WB)	-15 ~ 18 (5.0~64.4)	

#### 380 V

Nominal Capac	city		RT	20	25	
Model Name			-	AK-W240LC00	AK-W300LC00	
			kW	70.3	80.9	
Cooling Capacity	Net Capacity		kcal/h	AK-W240LC00  70.3  7h 60,480  h 240,000  7Wh 11.3  7Wh 11.3  7Wh 19.0  W 3.38  21.3  20.8  Hz 380, 3, 50/60  LG Louver  (inch) 9.52 (3/8)  (4 × 44 × 16) × 2  2.01 (21.6)  Plug Fan  (inch) 630 (25)  No. 10.0  nin 227  nin 8,000  Direct  HCC DC SCROLL  No. 5,500 × 1  FVC68D  No. 1,500 × 1  FVC68D  No. 1,500 × 1  Wide Louver Plus (Black)  No. 7 (9/32)  (3 × 52 × 14) × 2  ft²) 4.5 (48.2)  Propeller Fan  (inch) 680 (26-25/32)  No. 900 × 4  nin × No. 105 × 4	69,552	
3 , ,			Btu/h	240.000	276.000	
			kW	· · · · · · · · · · · · · · · · · · ·		
Heating Capacity	Net Capacity		kcal/h			
reading capacity	Truc capacity		Btu/h			
EER			Btu / Wh	· · · · · · · · · · · · · · · · · · ·	<u>'</u>	
IEER			Btu / Wh			
COP			W/W			
	Cooling		kW			
Power Input	Heating		kW			
Dower Supply	oply V, Ø, Hz					
rower supply	Ein Typo		V, W, 11Z			
	Fin Type Tube Size Outer Dia.		mm (inch)			
Indoor Coil	Tube Size Outer Dia.  (Row × Column × Fins per inch) × No.		THITT (IIICIT)	` ′		
Power Supply Indoor Coil Indoor Fan Compressor (#1, A Cycle)	F	i i × rii is per inch) × i vo.	-2 (f42)			
	Face Area		m² (ft²)			
	Туре					
	Diameter		mm (inch)			
Indoor Fan	Motor Output		W × No.			
Compressor (#1, A Cycle) Compressor (#2, B Cycle)	Air Flow Rate	Nominal	m³/min			
		Nominal	ft³/min	· · · · · · · · · · · · · · · · · · ·		
	Drive Type		-	Direct		
	Туре		-			
	Motor Output	<u> </u>	W × No.	,	<u>'</u>	
(#1, A Cycle)	Oil Type		-	FVC68D	FVC68D	
	Oil Charge		cc × No.	1,500 × 1	1,500 × 1	
	Туре		-	HCC DC SCROLL	HCC DC SCROLL	
	Motor Output	t	W × No.	60,480 69,552 240,000 276,000 70.3 80.9 60,480 69,552 240,000 276,000 11.3 10.6 11.3 10.6 11.90 18.3 3.38 3.24 2.13 26.0 2.08 25.0 3.80, 3,50/60 380, 3,50/60 LG Louver LG Louver 9.52 (3/8) 9.52 (3/8) (4 × 44 × 16) × 2 (4 × 44 × 16) × 2 2.01 (21.6) 2.01 (21.6) Plug Fan Plug Fan 630 (25) 630 (25) 10.0 10.0 227 261 8,000 9,200 Direct Direct HCC DC SCROLL HCC DC SCROLL 5,500 × 1 5,500 × 1 FVC68D FVC68D 1,500 × 1 1,500 × 1 HCC DC SCROLL HCC DC SCROLL S5,000 × 1 5,500 × 1 FVC68D FVC68D 1,500 × 1 1,500 × 1 FVC68D 1,500 × 1 1 1,500 × 1 FVC68D 1,500 × 1 1 1,500	5,500 × 1	
	Oil Type		-	FVC68D	FVC68D	
	Oil Charge		cc × No.	1,500 × 1	1,500 × 1	
	Fin Type		-	Wide Louver Plus (Black)	Wide Louver Plus (Black)	
O. Adaar Cail	Tube Size	Outer Dia.	mm (inch)	7 (9/32)	7 (9/32)	
Outdoor Coll	(Row × Colum	n × Fins per inch) × No.	-	(3 × 52 × 14) × 2	(3 × 52 × 14) × 2	
	Face Area		m <sup>2</sup> (ft <sup>2</sup> )	4.5 (48.2)	4.5 (48.2)	
	Туре		-	Propeller Fan	Propeller Fan	
	Diameter		mm (inch)	680 (26-25/32)	680 (26-25/32)	
	Motor Output	t	W × No.	900 × 4	900 × 4	
Outdoor Fan			m³/min × No.	105 × 4	105 × 4	
	Air Flow Rate		ft³/min × No.	3,700 × 4	3,700 × 4	
	Drive		-	BLDC Inverter	BLDC Inverter	
	Discharge Direction		-	Тор	Тор	
Dehumidification F	Rate		ℓ/h	24.1	30.1	
Drain Connection	Size		-			
	Refrigerant Name		-	R410A		
	Precharged	A-Circuit	kg			
Refrigerant	Amount	B-Circuit	kg			
	Control		-			
			mm			
Dimensions (W ×	$H \times D$ )		inch			
Net Weight			kg (lbs)		87-25/32×48-29/32×138-19/32 910 (2,006)	
Sound	Cooling		dB(A)			
Sound Power Levels			dB(A)			
	Heating	Min May				
Operation Range (Outdoor Temperature)			°C DB (°F DB)  °C WB (°F WB)	i i i i i i i i i i i i i i i i i i i	<u> </u>	
(Success remperature)	Heating	Min. ~ Max.	C AAD ( L AAB)	-13 ~ 10 (3.0~04.4)	-13 ~ 10 (3.0~04.4)	

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