



Kenya Energy Regulation

Grade	EER (W/W)				
1 Star(MEPS)	3.10 ≤ EER < 3.30				
2 Star	3.30 ≤ EER < 3.50				
3 Star	3.50 ≤ EER < 4.00				
4 Star	4.00 ≤ EER < 4.50				
5 Star	4.50 ≤ EER				

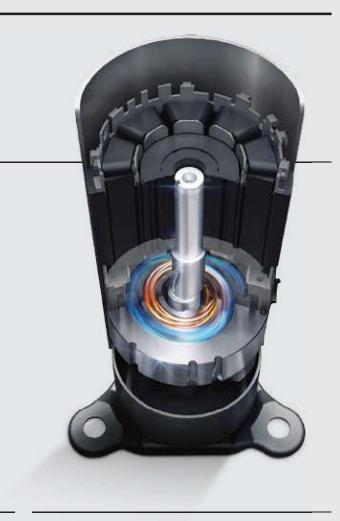


COMMERCIAL AIR CONDITIONER



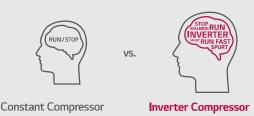
WHAT IS INVERTER?

Traditional compressors normally cease operation once the set temperature has been reached, then start again when the room gets warmer. This results in inefficient energy usage that increases energy bills. LG's Smart Inverter Single Split air conditioners on the other hand, operate much more efficiently, slowly decreasing and increasing output depending on the temperature outside and inside. This ultimately improves energy efficiency, as the air conditioner is able to control operational capacity.

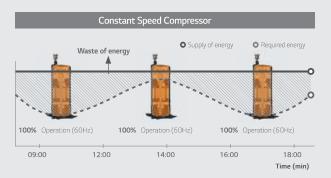


Brain

Non inverter running at constant-speed has only two choices; RUN or STOP. It runs at single speed without judging the ambient conditions. In contrast, Inverter operating at variable speed, can adjust its pace in the most efficient way.



Benefit of Inverter compressor



Dimmable lamp

Constant speed runs only ON/OFF operation, while variable speed adjusts its frequency upon external conditions, just like dimmable lighting can be controlled its brightness by ambient light.



Constant Compressor

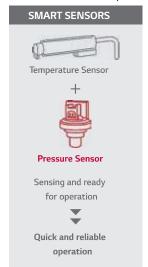
Inverter Compressor

SPECIFICATIONS

KEY FEATURES 3

01 Quick Cooling

At the same condition, the inverter reaches the set temperature about 30% faster than the constant speed





02 Enhanced Performance with R1 Compressor

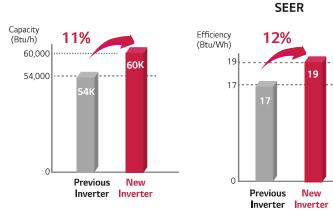
R1 Compressor makes it possible to improve capacity and efficiency with a wider operating range.

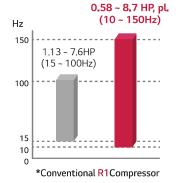
Enhanced Performance

- Maximum cooling capacity (11%[↑])
- Incresed seasonal energy efficiency (12% 1)

Enhanced Operation Range

- \bullet World best compressor speed (Up to 150 Hz)
- Optimized for low load operation (down to 10 Hz) (Efficiency increases)



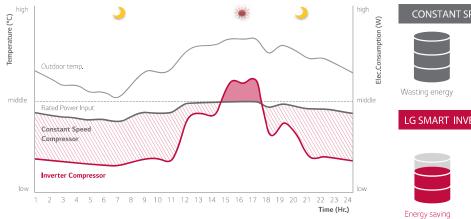


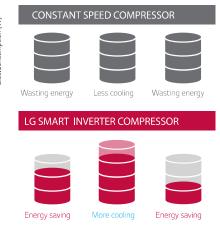
*The values are based on 60k(Capacity), 40k(SEER) model

*Conventional Compressor: Rotary type (GPT442M)

03 Energy Saving

the non-inverter works by turning the compressor on and off, it needs even more energy each time it restarts the compressor however, inverter V works without turning the compressor on and off, it doesn't need extra energy to restart while working. inverter V minimizes energy consumption along with higher energy efficiency than the non-inverter



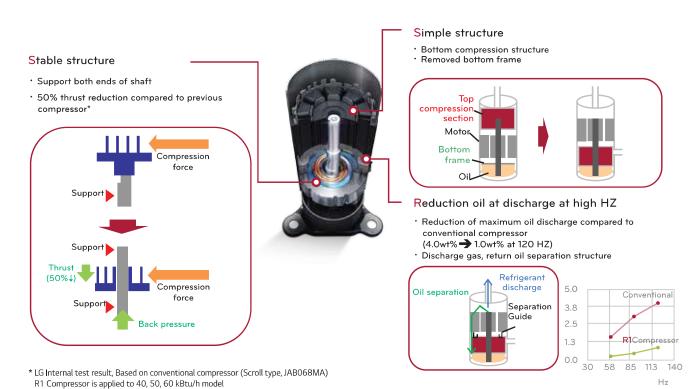


04 What is change between previous and new models?



05 R1 Compressor Structure and working

R1 Compressor is more stable and simple compressing structure with low-vibration characteristics of scroll compressor.



06 Ocean 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.



07 Comfort Cooling With Humidity Sensor



08 Human Detection Sensor

한국산업자습시험점합

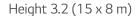
Detection control based on human motion

Air flow direction is controlled automatically by motion sensor that detects the activity of people every 10 seconds.



35 °C (DB) / 24°C (WB) - Applied model : AT-Q22GPLA4







Height 3.5 (16 x 10 m)



* To display humidity, new remote controller, PREMTB100 or

PREMTBB10 is needed

A sensor is installed 90 $^{\circ}$ rotation $12 \times 6 \text{ m} \rightarrow 6 \times 12 \text{ m}$ detecting

SPECIFICATIONS

Cassette



• Heat pump

	Outdoor unit Indoor unit		Unit	ATUW18GPLT1	ATUW24GPLT1	ATUW36GNLT1	ATUW48GMLT1
Combination				ATNW18GPLT1	ATNW24GPLT1	ATNW36GNLT1	ATNW48GMLT1
Cooling Capacity		Min. / Rated / Max.	Btu/h	7200 / 18000 / 20000	9600 / 24000 / 28000	16030 / 34100 / 38000	18400 / 46000 / 53000
Heating Capacity		Min. / Rated / Max.	Btu/h	7200 / 18000 / 21000	9600 / 24000 / 28000	13640 / 34100 / 37000	19200 / 48000 / 54000
Power input	Cooling	Rated	kW	1.55	2.06	2.93	3.96
	Heating	Rated	kW	1,5	2.05	2.84	4
EER/COP			W/W	3.4 / 3.51	3.41 / 3.43	3.4 / 3.52	3.4 / 3.52
Outdoor Unit			Unit	ATUW18GPLT1	ATUW24GPLT1	ATUW36GNLT1	ATUW48GMLT1
Power Supply			V, Ø, Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-24, 1, 50
Dimensions		W×H×D	mm	770 × 545 × 288	870 × 650 × 330	950 × 834 × 330	950 × 1,380 × 330
Net Weight		Body	kg	35.2	45.5	60.8	90.2
Compressor	Туре		-	Twin Rotary, BLDC	Twin Rotary, BLDC	Twin Rotary, BLDC	LG Inverter Scroll
Refrigerant				R410A	R410A	R410A	R410A
Fan Motor	Туре		-	BLDC	BLDC	BLDC	BLDC
Piping Connections	Liquid, Gas	Outer Dia.	mm(inch)	Ø 6.35 (1/4), Ø 12.7 (1/2)	Ø 9.52 (3/8), Ø 15.88 (5/8)	Ø 9.52 (3/8), Ø 15.88 (5/8)	Ø 9.52 (3/8), Ø 19.05 (3/4)
Piping Length		Min. / Max. / Max.Height	m	5 / 50 / 30	5/50/30	5 / 50 / 30	5/50/30
Indoor unit Panel Name		Unit	ATNW18GPLT1	ATNW24GPLT1	ATNW36GNLT1	ATNW48GMLT1	
			PT-UMC1 / PT-MCHW0	PT-UMC1 / PT-MCHW0	PT-UMC1 / PT-MCHW0	PT-UMC1 / PT-MCHW0	
Power Supply			V, Ø, Hz	220-240,1,50	220-240,1,50	220-240,1,50	220-240,1,50
Dimensions	Body	WxHxD	mm	840 × 204 × 840	840 × 204 × 840	840 × 246 × 840	840 × 288 × 840
Net Weight			kg	19.6	20.5	23.3	25.5
Fan	Air Flow Rate	H/M/L	m³/min	17.0/15.0/13.0	17.0 / 15.0 / 13.0	23.0/21.0/19.0	32.0 / 30.0 / 28.0
Fan Motor	Туре			BLDC	BLDC	BLDC	BLDC
Sound Pressure Level	H/M/L		dB(A)	36 / 34 / 32	38 / 36 / 34	42 / 40 / 38	44 / 42 / 40

• Cooling Only

Combination	Outdoor unit			ATUQ22GPLA4 *	ATUQ30GPLA4 *	AUUQ40GH4 *	AUUQ50GH4	AUUQ60GH4
				ATNQ22GPLA4	ATNQ30GPLA4	ATNQ40GNLA4	ATNQ50GMLA4	ATNQ60GMLA4
Cooling Capacity	Cooling Min. / Rated / Max.		kW	1.58 ~ 5.00 ~ 6.45	2.11 ~ 6.70 ~ 8.79	3.15 ~ 9.82 ~ 11.55	4.05 ~ 12.9~ 14.5	4.05 ~ 17.00 ~ 17.88
	Cooling	Min. / Rated / Max.	Btu/h	5,400 ~ 17,060 ~ 22,000	7,200 ~ 22,860 ~ 30,000	10,800 ~ 33,500 ~ 39,400	13,800 - 44,000 - 49,500	13,800 - 58,000 - 61,000
Power input	Cooling	Rated	kW	1.52	2.16	3.10	4.53	5.85
Running Current	Cooling	Rated	А	6.60	9.60	14.60	19.90	25.70
EER			W/W	3.29	3.10	3.17	2.85	2.91
Outdoor Unit			Unit	ATUQ22GPLA4	ATUQ30GPLA4	AUUQ40GH4	AUUQ50GH4	AUUQ60GH4
Power Supply			V, Ø, Hz	220-240, 1, 50/60	220-240, 1, 50/60	220-240, 1, 50/60	220-240, 1, 50/60	220-240, 1, 50/60
Net Weight	Net		kg	33.0	41.5	56.0	67.0	83.0
Compressor	Туре		-	Twin Rotary	Twin Rotary	LG Inverter Scroll	LG Inverter Scroll	LG Inverter Scroll
Refrigerant	Туре		-	R410A	R410A	R410A	R410A	R410A
Fan Motor	Туре		-	BLDC	BLDC	BLDC	BLDC	BLDC
Sound Power Level	Cooling		dB(A)	-	-	-	-	-
Piping Connections	Liquid, Gas	Outer Dia.	mm(inch)	Ø 6.35 (1/4), Ø 12.7 (1/2)	Ø 9.52 (3/8), Ø 15.88 (5/8)	Ø 9.52 (3/8), Ø 15.88 (5/8)	Ø 9.52 (3/8), Ø 19.05 (3/4)	Ø 9.52 (3/8), Ø 19.05 (5/8)
Piping Length		Min. / Max. / Max.Height	m	5/50/20	5/50/30	5/50/30	5/50/30	5/50/30
Indoor unit			Unit	ATNQ22GPLA4 *	ATNQ30GPLA4 *	ATNQ40GNLA4 *	ATNQ48GMLA4	ATNQ60GMLA4
Power Supply			V, Ø, Hz	220-240, 1, 50/60	220-240, 1, 50/60	220-240, 1, 50/60	220-240, 1, 50/60	220-240, 1, 50/60
Indoor Fan	Flow		m³/min	16.5 / 14.5 / 13.0	17.0 / 15.0 / 13.0	23.0 / 21.0 / 19.0	31.0 / 28.0 / 25.0	31.0 / 28.0 / 25.0
Indoor Fan Motor	Туре		-	BLDC	BLDC	BLDC	BLDC	BLDC
Dimensions	Net		mm	840 × 204 × 840	840 × 204 × 840	840 × 246 × 840	840 x 288 x 840	840 x 288 x 840
Weight	Net	W×H×D	kg	21.0	21.0	24.0	28.0	28.0
Sound Pressure Level	H/M/L		dB(A)+3dB	36/34/32	38/36/34	40/38/36	47 / 45 / 42	47 / 45 / 42