

WALL MOUNTED

SINGLE SPLIT

Saving Operation Cost

High Energy Efficiency



The advanced technologies of LG achieve lower energy consumption, especially in cooling as can be seen from the SEER class given according to ErP Regulations.

Server room need to be operated continuously.

That's why server room owners want to use high energy efficient air conditioning.

LG solution saves annual operation cost for server room due to high SEER.



- ※ P Company 7.1kW Solution / Outdoor unit: 7.1kW Indoor unit: 7.1kW Wall mounted unit
- $\ensuremath{ imes}$ Performances are based on the following conditions :
 - Cooling : Indoor Temp. 27°CDB / 19°CWB, Outdoor Temp. 35°CDB / 24°CWB
- Heating: Indoor Temp. 20°CDB / 15°CWB, Outdoor Temp. 7°CDB / 6°CWB
- Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

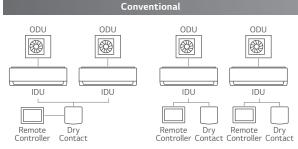
LG Server Room Solution									
SEER class (ErP regulation)									
	2.5kW 3.4kW 5.0kW 6.8kW 8.0kW 9.5kW								
SEER	7.0 (A++)	6.6 (A++)	6.8 (A++)	6.7 (A++)	7.0 (A++)	6.1 (A++)			
SCOP					4.3 (A+)	3.85 (A+)			
SEER class (ErP regulation)									

A+++	SEER≥8.5	В	4.6 ≤ SEER < 5.1
A++	6.1 ≤ SEER < 8.5	С	4.1 ≤ SEER < 4.6
A+	5.6 ≤ SEER < 6.1	D	3.6 ≤ SEER < 4.1
	5.1 ≤ SEER < 5.6		

Easy Installation

Simplified connection

For small server rooms, LG solution has simple system with only one remote controller. It doesn't need additional control accessories.



Higher product cost

Conventional system needs dry contact and 3^{rd} party control individual remote controller(s).

• Higher installation cost

Need less labor and time for design, installation, cabling and test.

• Design & Installation difficulties

It is difficult to make if you need to control more indoor units.

Max. 4 ODU Max. 4 IDU

Lower product cost

Only LG remote controller needed for max.4 ODUs and IDUs.

• Lower installation cost

Need less labor and time for design, installation, cabling and test.

• Easy Design & Installation

It provides easy design and installation because it has simple system with LG controller even in case of more number of ODUs and IDUs(Max.4).

* MJ09PC, MJ12PC, MJ18PC, MJ24PC combinations are only available

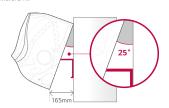
Detachable Bottom Cover

The bottom cover is detachable when needed, making installation easier. Disassembly or additional support of the unit is unnecessary. Installation can be completed by one individual with LG's patented support tool.



Installation Support Clip

A support clip creates adequate space between the wall and the unit for easier installation.



* This contents of page will be updated later. (Saving operation cost / Easy installation)

Stable & Reliable Operation

Duty Rotation

Operates more than 2 sets of indoor units alternatively at every set time of operation interval. Rotation interval can be set from 1h to 999h freely.



Air Conditioners' Overworking

- Reducing air conditioner's life time
- Reducing compressor's life expectancy
- The service cost may increase due to air conditioner's overworking



Stable & Safe Operation

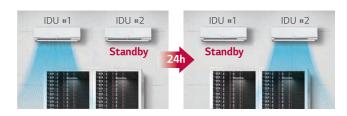
- Stable operation due to indoor units take turns
- Less breakdown and keeping server room operation
- Increase air conditioner's life expectancy
- Rotation interval can be set from 1h to 999h freely.

Operation Scenario

When the number of the indoor units: 2

If the interval time is set 24h(default),

- 1 While IDU #1 operates during interval time, IDU #2 is on standby.
- ② IDU #2 operates next 24 hours, and IDU #1 is on standby.



Failure Back-up

If systems in operation have error and stop, the standby unit starts operation automatically.



Server can be Shut Down

- Server room overheated and server can be shut down.
- Probability of increased service cost
- Need manual monitoring and operation for failure



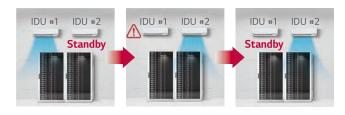
Stable & Safe Operation

- Stable operation because the operation error can be covered by failure back-up operation
- Continue server operations and decrease risk
- Protect server from overheating
- Less manual work

Operation Scenario

When the number of the indoor units : 2 $\,$

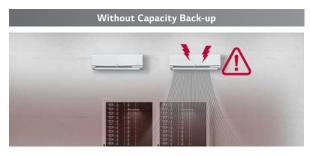
- When duty rotation is enabled, IDU #1 is in operation and IDU #2 is on standby.
- ② If an error occurs on IDU #1, standby unit starts operation.
- 3 After the error is cleared, IDU #2 goes back to standby.



SINGLE SPLIT

Capacity Back-up

When the difference between the cooling set temperature and the current room temperature is higher than the set temperature difference of capacity back-up, the standby unit operates. When the temperature difference reaches to the set temperature difference, it goes back to the normal duty rotation.



Server can be Overheated

- Sometimes server room can be overheated because of server overload
- Server can be shut down when they overheat continuously
- Air conditioners overload
- Need manual controls for additional cooling



Stable & Safe Operation

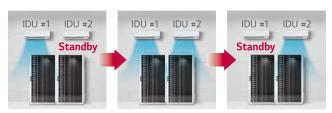
- Stable operation due to the over capacity by back-up operation
- Prevent air conditioners from overload
- Protect server from overheating
- No need for manual controls as they protect from overheating automatically

Operation Scenario

When the number of the indoor units: 2

The set temperature difference is A, and the difference between the cooling set temperature and the current room temperature is B,

- When duty rotation is enabled, IDU #1 is in operation and IDU #2 is on standby.
- ② If B is higher than A, the standby unit starts operation.
- When B goes down and remains below A for some time, The backup unit stops and goes back to standby mode.



If cooling set temperature is 22°C and the set temperature difference is 4°C.

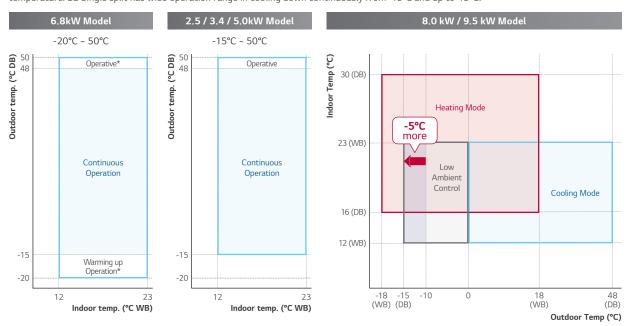
When current temperature goes above 26°C, the standby unit starts operation.

If currnet temperature drops and remains below 26 °C for some time, the backup unit stops.

※ Duty rotation, capacity back-up, failure back-up function will be available from 2021.2Q - Applied models: MJ09PC, MJ12PC, MJ18PC, MJ24PC only

Wide Operational Range

In case of the server room, continuous cooling is required all year round, and outdoor unit must be stable in the outdoor harsh cold temperature. LG Single split has wide operation range in cooling down continuously from -15°C and up to 48°C.



^{*} Warming up operation and operative means that the outdoor unit operates to reach the range of continuous operating, however it may not operate continuously due to safety or protection logic.

STANDARD INVERTER (R32)

MJ09PC / MJ12PC











LG participates in the ECP programme for EUROVENT AC program. Check ongoing validity of certification : www.eurovent-certification.com

COMBINATION				9	12	
	Cooling Mi	in, / Rated / Max.	kW	1.50 / 2.50 / 3.20	1.50 / 3.50 / 4.00	
Capacity		in. / Rated / Max.	kW	1.80 / 3.20 / 3.70	1.80 / 4.00 / 4.40	
		in. / Rated / Max.	kW	0.30 / 0.58 / 0.84	0.33 / 0.97 / 1.48	
Power Input		in. / Rated / Max.	kW	0.30 / 0.71 / 0.85	0.33 / 1.00 / 1.48	
		ated	A	2.60	4.40	
Running Current		ited	A	3.20	4.50	
3		kWh / kWh	4.30 / 4.50	3.60 / 4.00		
SEER / SCOP			kWh / kWh	7.00 / 4.00	6.60 / 4.00	
SELICY SCOT	Cooling @ 35°C		kW	2.5	3.5	
P Design	Heating @-10°C		kW	2.8	2.8	
Seasonal Energy Label	2 0	ooling / Heating	_	A++ / A+	A++ / A+	
Annual Energy Consumption		ooling / Heating	kWh	125 / 980	186 / 980	
Dehumidification Rate		Jolling / Fleating	ℓ/h	1.90	1,90	
Denumium cation rate	Cooling Ra	nted	dB(A)	49	49	
ODU Sound Pressure Level		ited	dB(A)	52	52	
		nted	dB(A)	65	65	
ODU Sound Power Level		ited	dB(A)	03	05	
		ited iter Dia.	mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	
Piping Connections		iter Dia. iter Dia.	mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	
riping connections	Connections Method	itei Dia.	IIIII (IIICII)	9 3.32 (3/6) Flare	Ø 9.52 (5/6)	
		in. / Max.	°C	-15 / 50	-15 / 50	
Operation Range (Outdoor)			°C	-20 / 18	-13 / 30	
Heating Min. / Max.		C		MJ12PC NSJ		
INDOOR			Ø / \/ /	MJ09PC NSJ		
Power Supply Power Input	Min. / Nom. / Max.		Ø/V/Hz W	1 / 220-240 / 50 11 / 18 / 30	1 / 220-240 / 50 11 / 19 / 30	
Air Flow Rate		/ M / L	m³/min	7.6 / 6.2 / 4.8	8.0 / 6.6 / 5.5	
Dimensions		XHXD	mm	818 x 316 x 189	818 x 316 x 189	
Dillienzionz	,	хпхр			8.2 (18.1)	
Weight	Body		kg (lbs)	8.2 (18.1) 10.2 (22.5)	, ,	
Sound Pressure Level	Shipping	/ M / L	kg (lbs)	36 / 32 / 27	10.2 (22.5) 38 / 34 / 29	
Sound Pressure Level Sound Power Level			dB(A)	56	56	
	,	ax. D. / I.D.	dB(A)	Ø 21.5 / 16.0	Ø 21.5 / 16.0	
Piping Connections	Drain O.I	D. / I.D.	mm		· · · · · · · · · · · · · · · · · · ·	
OUTDOOR				1 UL0		
Power Supply			Ø/V/Hz	1 / 220-240 / 50		
Circuit Breaker Min.		in.	Α	15		
Power Supply Cable (included Earth)		No. x mm ²	3C x 1.5			
Dimensions		xHxD	mm	770 x 545 x 288		
Weight	Net		kg	33.3		
Compressor	Type		-	Twin Rotary		
	Туре		-	R32		
	GWP (Global Warming Potential)		-	675		
Refrigerant	Precharged Amount		kg	1.0		
	t-CO₂eq.		-		575	
	Control		-	_	EV	
	Additional Charging Vo		g/m		.0	
		ited	m³/min x No.	. 28 x 1		
Total Piping Length		in. / Max.	m		30.0	
Piping Elevation	IDU-ODU Ma	ax	m	3	30	

SINGLE SPLIT

UUB1 U20

MJ18PC / MJ24PC

STANDARD INVERTER (R32)











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COMBINATION				18	24
COMBINATION	Cooling Mi	n. / Rated / Max.	kW	2.00 / 5.00 / 7.00	2.70 / 6.80 / 7.70
Capacity		n. / Rated / Max.	kW	2.30 / 5.80 / 6.10	3.00 / 6.90 / 7.24
		n. / Rated / Max.	kW	0.30 / 1.39 / 2.63	0.40 / 2.00 / 2.57
Power Input		n. / Rated / Max.	kW	0.30 / 1.71 / 1.96	0.40 / 2.33 / 2.50
		ted	A	6.30	9.10
Running Current		ted	A	7.70	10.60
EER / COP	rieating Na	iteu	kWh / kWh	3.61 / 3.40	3.40 / 3.00
SEER / SCOP			kWh / kWh	6.80 / 4.00	6.70 / 3.90
SELIT / SCOI	Cooling @ 35°C		kW	5.0	6.8
P Design	Heating @-10°C		kW	4.1	5.0
Seasonal Energy Label		ooling / Heating	KVV	A++ / A+	3.0 A++ / A
Annual Energy Consumption		ooling / Heating	kWh	257 / 1,365	355 / 1,795
Dehumidification Rate	Co	ourig / Fleating	ℓ/h	3.35	3,50
Denumium Cation Rate	Cooling Ra	ted	dB(A)	47	48
ODU Sound Pressure Level		ted	dB(A)	52	52
		ted	dB(A)	63	65
ODU Sound Power Level		ted	dB(A)	03	-
	3	iter Dia.	mm (inch)	Ø 6.35 (1/4)	ø 9.52 (3/8)
Dining Connections		iter Dia. iter Dia.	mm (inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)
Piping Connections		iter Dia.	mm (inch)	Ø 12.7 (172) Flare	9 15.88 (5/8) Flare
	Connections Method	- / 1/1	°C		
Operation Range (Outdoor)		n. / Max.	°C	-15 / 50	-20 / 50
	Heating Mi	n. / Max.	-(-20 / 18	-20 / 18
INDOOR			~	MJ18PC NSK	MJ24PC NSK
Power Supply			Ø/V/Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Input	Min. / Nom. / Max.		W	26/39/60	27 / 45 / 60
Air Flow Rate		/ M / L	m³/min	15.8 / 12.4 / 10.0	16.9 / 12.8 / 10.4
Dimensions	,	xHxD	mm	975 x 354 x 209	975 x 354 x 209
Weight	Body		kg (lbs)	10.9 (24.0)	11.5 (25.4)
	Shipping		kg (lbs)	13.9 (30.6)	14.5 (32.0)
Sound Pressure Level		/ M / L	dB(A)	44 / 38 / 34	46 / 41 / 36
Sound Power Level	Cooling Ma		dB(A)	59	65
Piping Connections	Drain O.I	D. / I.D.	mm	Ø 21.5 / 16.0	Ø 21.5 / 16.0
OUTDOOR				UUB1 U20	UUC1 U40
Power Supply			Ø/V/Hz	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker	Mi	n	А	20	25
Power Supply Cable (include			No. x mm ²	3C x 2.5	3C x 2.5
Dimensions		x H x D	mm	870 x 650 x 330	950 x 834 x 330
Weight	Net		kg	44.5	57.7
Compressor	Туре		-	Twin Rotary	Twin Rotary
	Туре		-	R32	R32
Refrigerant	GWP (Global Warming Potential)		-	675	675
	Precharged Amount		kg	1.2	1.9
	t-CO₂eq.		-	0.810	1.283
	Control		-	EEV	EEV
	Additional Charging Vo	olume	g/m	20	40
	Air Flow Rate Ra	ted	m³/min x No.	50 x 1	58 x 1
Total Piping Length		n. / Max.	m	5.0 / 35.0	5.0 / 50.0
Piping Elevation	IDU-ODU Ma	ax.	m	30	30

STANDARD INVERTER (R32)

US30F / US36F

UUC1 U40 UUD1 U30 UUD3 U30











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: www.eurovent-certification.com

COMBINATION				30	36	36
Capacity	Cooling	Min. / Rated / Max.	kW	3.2 / 8.0 / 9.0	3.8 / 9.5 / 12.5	3.8 / 9.5 / 12.5
- apacity	Heating	Min. / Rated / Max.	kW	3.6 / 9.0 / 10.0	4.3 / 10.8 / 13.4	4.3 / 10.8 / 13.4
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0.50 / 2.28 / 3.17	0.30 / 2.57 / 3.91	0.30 / 2.57 / 3.91
Tower input (Set)	Heating	Min. / Rated / Max.	kW	0.50 / 2.5 / 3.20	0.50 / 2.77 / 3.77	0.50 / 2.77 / 3.77
Running Current	Cooling	Rated	А	10.1	11.4	4.1
Rulling Current	Heating	Rated	А	11.1	12.2	4.4
EER / COP			kWh/kWh	3.51 / 3.60	3.70 / 3.90	3.70 / 3.90
SEER / SCOP			kWh/kWh	7.0 / 4.3	6.10 / 3.85	6.10 / 3.85
Pdesign	Cooling @ 35°C		kW	8	9.5	9.5
ruesigii	Heating @ -10°C		kW	5.4	8.7	8.7
Seasonal Energy Label	Cooling / Heating		-	A++ / A+	A++ / A	A++ / A
Annual Energy Consumption	Cooling / Heating		kWh	400 / 1,758	545 / 3,164	545 / 3,164
Dehumidification Rate			l/h	2.9	3.8	3.8
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	50 / 52	50 / 50	50 / 50
ODU Sound Power Level	Cooling	Rated	dB(A)	68	66	66
	Liquid		mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connections	Gas		mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Metho	od	-	Flared	Flared	Flared
Operation Range	Cooling	Min. / Max.	°C	-20 ~ 50	-20 ~ 52	-20 ~ 52
(Outdoor)	Heating	Min. / Max.	°C	-20 ~ 18	-25 ~ 18	-25 ~ 18
INDOOR				US30F NR0	US36F NR0	US36F NR0
Power Supply			Ø/V/Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H/M/L	W	47 / 42 / 36	65 / 47 / 42	65 / 47 / 42
Air Flow Rate		H/M/L	m3/min	21 / 17 / 13	25 / 21 / 17	25 / 21 / 17
Dimensions	Body	$W \times H \times D$	mm	1,200 x 360 x 265	1,200 x 360 x 265	1,200 x 360 x 265
Weight	Body		kg	18.3	18.3	18.3
Sound Pressure Level	Cooling	H/M/L	dB(A)	46.0 / 42.0 / 38.0	51.0 / 46.0 / 42.0	51.0 / 46.0 / 42.0
Sound Power Level	Cooling	Max.	dB(A)	62	65	65
Piping Connections	Drain	O.D. / I.D.	mm	Ø21.5 / 16.0	Ø21.5 / 16.0	Ø21.5 / 16.0
OUTDOOR				UUC1 U40	UUD1 U30	UUD3 U30
Power Supply			Ø/V/Hz	1 / 220-240 / 50	1 / 220-240 / 50	3 / 380-415 / 50
Circuit Breaker		Min.	А	25	40	20
Power Supply Cable (Included Earth)		No x mm ³	3C x 2.5	3C x 6.0	5C x 2.5	
Dimensions	Net	WxHxD	mm	950 x 834 x 330	950 x 1,380 x 330	950 x 1,380 x 330
Weight	Net		kg	57.7	85	85
Compressor	Туре		-	Twin Rotary	Inverter Scroll	Inverter Scroll
	Туре		-	R32	R32	R32
Refrigerant	GWP (Global Warn	ning Potential)	-	675	675	675
		- '		1.0	2.0	3.0
Refrigerant	Precharged Amoun	t	kg	1.9	3.0	5.0
Refrigerant		t	kg -	1.283	2.025	2.025
Refrigerant	Precharged Amoun		kg - g/m			
	Precharged Amount-CO ₂ eq Additional Charge (After 7.5m)	- g/m	1.283 40	2.025 40	2.025 40
Refrigerant Fan Total Piping Length	Precharged Amount-CO2eq		-	1.283	2.025	2.025

Note

- 1. Due to our policy of innovation some specifications may be changed without notification.
- 2. Performances are based on the following conditions (It is accordance with EN14511)
 - Cooling : Indoor Ambient Temp 27°C DB / 19°C WB, Outdoor Ambient Temp 35°C DB / 24°C WB
 - Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
- 3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
- 4. This product contains fluorinated greenhouse gases. (R32)





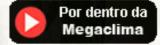


30 Anos na climatização e tratamento de ar

video 2"



video 7"



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