

# WALL MOUNTED



## Saving Operation Cost

### High Energy Efficiency

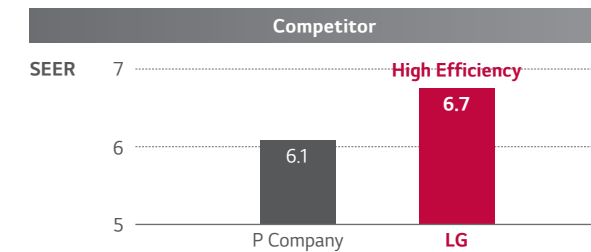


The advanced technologies of LG achieve lower energy consumption, especially in cooling as can be seen from the SEER class given according to ErP Regulations.

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

※ 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

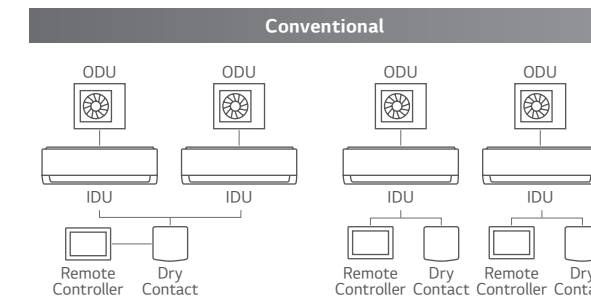
SEER class (ErP regulation)						
	2.5kW	3.4kW	5.0kW	6.8kW	8.0kW	9.5kW
SEER	7.0 (A++)	6.6 (A++)	6.8 (A++)	6.7 (A++)	7.0 (A++)	6.1 (A++)
SCOP					4.3 (A+)	3.85 (A+)

SEER class (ErP regulation)			
A+++	SEER≥8.5	B	4.6 ≤ SEER < 5.1
A++	6.1 ≤ SEER < 8.5	C	4.1 ≤ SEER < 4.6
A+	5.6 ≤ SEER < 6.1	D	3.6 ≤ SEER < 4.1
A	5.1 ≤ SEER < 5.6		

## Easy Installation

### Simplified Connection

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



#### • Higher product cost

A conventional system needs a dry contact and 3<sup>rd</sup> party control individual remote controller(s).

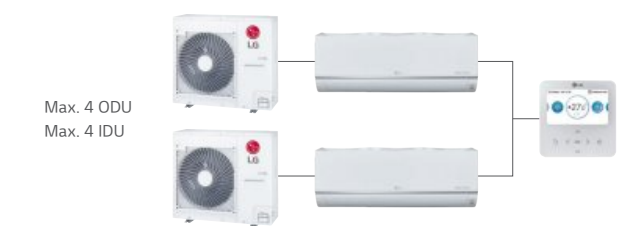
#### • Higher installation cost

Need more 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.

### LG Server Room Solution



#### • Lower product cost

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

#### • Lower installation cost

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

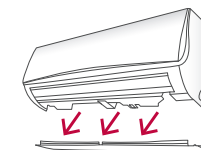
#### • Easy Design & Installation

It provides easy design and installation because of a 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

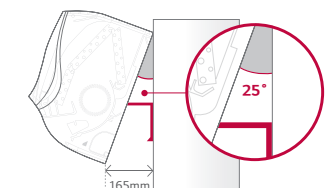
### Detachable Bottom Cover

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

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

### Stable & Safe Operation

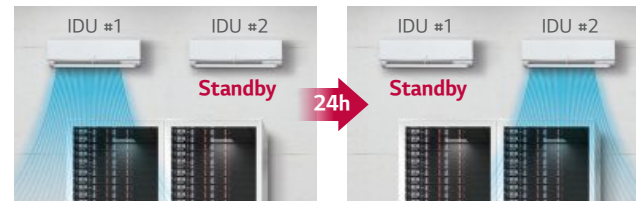
- Stable operation due to indoor units taking turns when operating
- Less breakdowns and operational server room
- The air conditioner's life expectancy is increased
- Rotation interval can be set from 1h to 999h freely

### 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 an error and stop, the standby unit starts operation automatically.



### A server can be shut down

- In case of an overheated server room a server can be shut down
- The risk of an increased service cost
- The need for manual monitoring and operation for failure

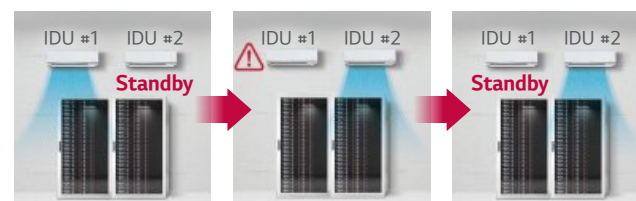
### Stable & Safe Operation

- Stable operation because the operation error can be covered by failure back-up operation
- Continuous server operations and decreased risk
- The server is protected from overheating
- Less manual work

### Operation Scenario

#### When the number of the indoor units : 2

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



## 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 the set temperature difference, it goes back to the normal duty rotation.



### Server can be Overheated

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

### Stable & Safe Operation

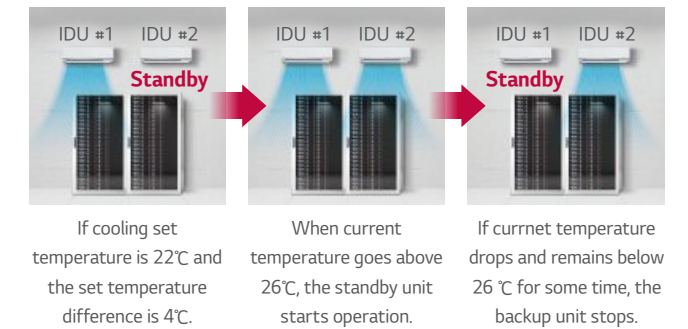
- Stable operation due to the over capacity by back-up operation
- Prevent air conditioners from overload
- Protect server from overheating
- No need for manual controls due to the automatic protection from overheating

### 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,

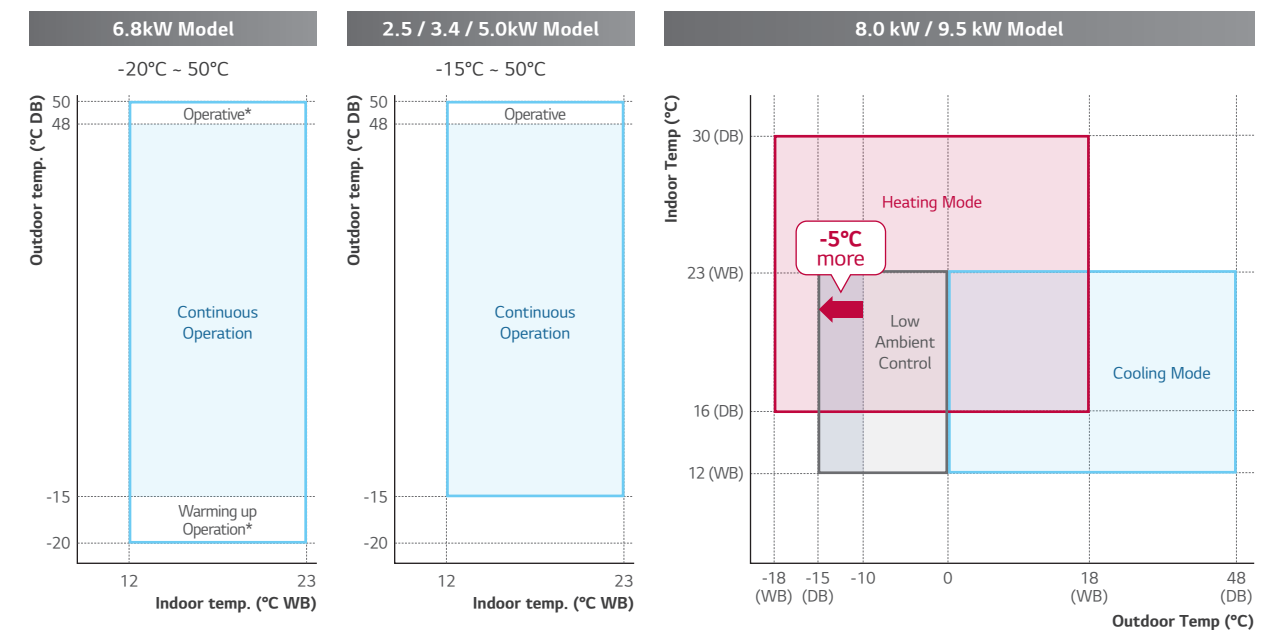
- 1 When duty rotation is enabled, IDU #1 is in operation and IDU #2 is on standby.
- 2 If B is higher than A, the standby unit starts operation.
- 3 When B goes down and remains below A for some time, The backup unit stops and goes back to standby mode.



\* 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](http://www.eurovent-certification.com)

UUA1 ULO



COMBINATION				9	12		
Capacity	Cooling	Min. / Rated / Max.	kW	1.50 / 2.50 / 3.20	1.50 / 3.50 / 4.00		
	Heating	Min. / Rated / Max.	kW	1.80 / 3.20 / 3.70	1.80 / 4.00 / 4.40		
Power Input	Cooling	Min. / Rated / Max.	kW	0.30 / 0.58 / 0.84	0.33 / 0.97 / 1.48		
	Heating	Min. / Rated / Max.	kW	0.30 / 0.71 / 0.85	0.33 / 1.00 / 1.48		
Running Current	Cooling	Rated	A	2.60	4.40		
	Heating	Rated	A	3.20	4.50		
EER / COP			kWh / kWh	4.30 / 4.50	3.60 / 4.00		
SEER / SCOP			kWh / kWh	7.00 / 4.00	6.60 / 4.00		
P Design	Cooling @ 35°C		kW	2.5	3.5		
	Heating @-10°C		kW	2.8	2.8		
Seasonal Energy Label		Cooling / Heating	-	A++ / A+	A++ / A+		
Annual Energy Consumption		Cooling / Heating	kWh	125 / 980	186 / 980		
Dehumidification Rate			ℓ/h	1.90	1.90		
ODU Sound Pressure Level	Cooling	Rated	dB(A)	49	49		
	Heating	Rated	dB(A)	52	52		
ODU Sound Power Level	Cooling	Rated	dB(A)	65	65		
	Heating	Rated	dB(A)	-	-		
Piping Connections	Liquid	Outer Dia.	mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)		
	Gas	Outer Dia.	mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)		
	Connections Method			Flare	Flare		
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-15 / 50	-15 / 50		
	Heating	Min. / Max.	°C	-20 / 18	-20 / 18		
INDOOR				MJ09PC NSJ	MJ12PC NSJ		
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50		
Power Input			Min. / Nom. / Max.	W	11 / 18 / 30		
Air Flow Rate			H / M / L	m³/min	7.6 / 6.2 / 4.8		
Dimensions			Body	W x H x D	mm	818 x 316 x 189	
Weight	Body		kg (lbs)	8.2 (18.1)	8.2 (18.1)		
	Shipping		kg (lbs)	10.2 (22.5)	10.2 (22.5)		
Sound Pressure Level			Cooling	H / M / L	dB(A)	36 / 32 / 27	
Sound Power Level			Cooling	Max.	dB(A)	56	
Piping Connections			Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0	
OUTDOOR				UUA1 ULO			
Power Supply			Ø / V / Hz	1 / 220-240 / 50			
Circuit Breaker			Min.	A			
Power Supply Cable (included Earth)			No. x mm²	3C x 1.5			
Dimensions			Net	W x H x D		mm	770 x 545 x 288
Weight			Net	kg		33.3	
Compressor			Type	-		Twin Rotary	
Refrigerant	Type		-	R32			
	GWP (Global Warming Potential)		-	675			
	Precharged Amount		kg	1.0			
	t-CO₂eq.		-	0.675			
	Control		-	EEV			
	Additional Charging Volume		g/m	20			
	Air Flow Rate		Rated	m³/min x No.		28 x 1	
Total Piping Length			Min. / Max.	m		5.0 / 30.0	
Piping Elevation			IDU-ODU	Max.	m	30	

STANDARD INVERTER (R32)

MJ18PC / MJ24PC



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UUB1 U20

UUC1 U40



COMBINATION				18	24		
Capacity	Cooling	Min. / Rated / Max.	kW	2.00 / 5.00 / 7.00	2.70 / 6.80 / 7.70		
	Heating	Min. / Rated / Max.	kW	2.30 / 5.80 / 6.10	3.00 / 6.90 / 7.24		
Power Input	Cooling	Min. / Rated / Max.	kW	0.30 / 1.39 / 2.63	0.40 / 2.00 / 2.57		
	Heating	Min. / Rated / Max.	kW	0.30 / 1.71 / 1.96	0.40 / 2.30 / 2.50		
Running Current	Cooling	Rated	A	6.30	9.10		
	Heating	Rated	A	7.70	10.60		
EER / COP			kWh / kWh	3.61 / 3.40	3.40 / 3.00		
SEER / SCOP			kWh / kWh	6.80 / 4.00	6.70 / 3.90		
P Design	Cooling @ 35°C		kW	5.0	6.8		
	Heating @-10°C		kW	4.1	5.0		
Seasonal Energy Label		Cooling / Heating	-	A++ / A+	A++ / A		
Annual Energy Consumption		Cooling / Heating	kWh	257 / 1,365	355 / 1,795		
Dehumidification Rate			ℓ/h	3.35	3.50		
ODU Sound Pressure Level	Cooling	Rated	dB(A)	47	48		
	Heating	Rated	dB(A)	52	52		
ODU Sound Power Level	Cooling	Rated	dB(A)	63	65		
	Heating	Rated	dB(A)	-	-		
Piping Connections	Liquid	Outer Dia.	mm (inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)		
	Gas	Outer Dia.	mm (inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)		
	Connections Method			Flare	Flare		
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-15 / 50	-20 / 50		
	Heating	Min. / Max.	°C	-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		
Air Flow Rate			H / M / L	m³/min	15.8 / 12.4 / 10.0		
Dimensions			Body	W x H x D	mm	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	Cooling	H / M / L	dB(A)	44 / 38 / 34	46 / 41 / 36		
Sound Power Level	Cooling	Max	dB(A)	59	65		
Piping Connections	Drain	O.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			Min	A	25		
Power Supply Cable (included Earth)			No. x mm²	3C x 2.5	3C x 2.5		
Dimensions			Net	W x H x D	mm	870 x 650 x 330	
Weight			Net	kg	44.5	57.7	
Compressor			Type	-	Twin Rotary	Twin Rotary	
Refrigerant	Type		-	R32	R32		
	GWP (Global Warming Potential)		-	675	675		
	Precharged Amount		kg	1.2	1.9		
	t-CO₂eq.		-	0.810	1.283		
	Control		-	EEV	EEV		
	Additional Charging Volume		g/m	20	40		
	Air Flow Rate		Rated	m³/min x No.	50 x 1	58 x 1	
Total Piping Length			Min. / Max.	m	5.0 / 35.0	5.0 / 50.0	
Piping Elevation			IDU-ODU	Max.	m	30	30

STANDARD INVERTER (R32)

US30F / US36F



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Check ongoing validity of certification  
: [www.eurovent-certification.com](http://www.eurovent-certification.com)

UUC1 U40



UUD1 U30



UUD3 U30



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
	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
	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	A	10.1	11.4	4.1
	Heating	Rated	A	11.1	12.2	4.4
EER / COP				kWh / kWh	3.51 / 3.60	3.70 / 3.90
SEER / SCOP				kWh / kWh	7.0 / 4.3	6.10 / 3.85
Pdesign	Cooling @ 35°C		kW	8	9.5	9.5
	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
Piping Connections	Liquid		mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas		mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Method		-	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-20 ~ 50	-20 ~ 52	-20 ~ 52
	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 x H x 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.	A	25	40	20
Power Supply Cable (Included Earth)			No x mm <sup>3</sup>	3C x 2.5	3C x 6.0	5C x 2.5
Dimensions	Net	W x H x D	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	Type		-	Twin Rotary	Inverter Scroll	Inverter Scroll
	Type		-	R32	R32	R32
	GWP (Global Warming Potential)		-	675	675	675
	Precharged Amount		kg	1.9	3.0	3.0
	t-CO <sub>2</sub> eq		-	1.283	2.025	2.025
	Additional Charge (After 7.5m)		g/m	40	40	40
Fan	Air Flow Rate	Rated	m <sup>3</sup> /min x No.	58 x 1	55 x 2	55 x 2
Total Piping Length		Min. / Max.	m	5 / 50	5 / 85	5 / 85
Piping Elevation	IDU - ODU	Max.	m	30	30	30

- Note :
- Due to our policy of innovation some specifications may be changed without notification.
  - 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.
  - 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.
  - This product contains fluorinated greenhouse gases. (R32)

COMPACT INVERTER (R32)

US30F / US36F



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UUB1 U20



UUC1 U40



COMBINATION				30	36
Capacity	Cooling	Min. / Rated / Max.	kW	3.0 / 7.5 / 8.3	3.8 / 9.5 / 10.6
	Heating	Min. / Rated / Max.	kW	3.1 / 7.7 / 8.5	4.3 / 10.8 / 11.5
Power Input (Set)	Cooling	Min. / Rated / Max.	kW	0.50 / 2.31 / 2.77	0.60 / 3.06 / 3.67
	Heating	Min. / Rated / Max.	kW	0.40 / 2.14 / 2.78	0.60 / 3.0 / 3.72
Running Current	Cooling	Rated	A	10.1	13.6
	Heating	Rated	A	9.3	13.3
EER / COP				kWh / kWh	3.25 / 3.60
SEER / SCOP				kWh / kWh	6.8 / 4.1
Pdesign	Cooling @ 35°C		kW	7.5	9.5
	Heating @ -10°C		kW	4.3	5.8
Seasonal Energy Label	Cooling / Heating		-	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	386 / 1,468	520 / 1,980
Dehumidification Rate			l/h	3.0	3.5
ODU Sound Pressure Level	Cooling / Heating	Rated	dB(A)	50 / 54	54 / 56
ODU Sound Power Level	Cooling	Rated	dB(A)	67	70
Piping Connections	Liquid		mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas		mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Connections Method		-	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max.	°C	-10 ~ 48	-20 ~ 50
	Heating	Min. / Max.	°C	-15 ~ 18	-15 ~ 18
INDOOR				US30F NR0	US36F NR0
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L	W	47 / 42 / 36	65 / 47 / 42
Air Flow Rate		H / M / L	m3/min	21 / 17 / 13	25 / 21 / 17
Dimensions	Body	W x H x D	mm	1,200 x 360 x 265	1,200 x 360 x 265
Weight	Body		kg	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
Sound Power Level	Cooling	Max.	dB(A)	62	65
Piping Connections	Drain	O.D. / I.D.	mm	Ø21.5 / 16.0	Ø21.5 / 16.0
OUTDOOR				UUB1 U20	UUC1 U40
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker		Min.	A	20	25
Power Supply Cable (Included Earth)			No x mm <sup>3</sup>	3C x 2.5	3C x 2.5
Dimensions	Net	W x H x D	mm	870 x 650 x 330	950 x 834 x 330
Weight	Net		kg	44.5	57.7
Compressor	Type		-	Twin Rotary	Twin Rotary
	Type		-	R32	R32
	GWP (Global Warming Potential)		-	675	675
	Precharged Amount		kg	1.2	1.9
	t-CO <sub>2</sub> eq		-	0.81	1.283
	Additional Charge (After 7.5m)		g/m	40	40
Fan	Air Flow Rate	Rated	m <sup>3</sup> /min x No.	50 x 1	58 x 1
Total Piping Length		Min. / Max.	m	5 / 35	5 / 50
Piping Elevation	IDU - ODU	Max.	m	30	30

- Note :
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    - Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB
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