

Soft Air Surrounds You In Comfort

# LG DUALCOOL™

Premium / Deluxe



## Why LG DUALCOOL™?



### Comfortable Air Flow

Enjoy a perfectly balanced breeze through multiple vanes and indirect air flow. Stay refreshed with automatic dehumidification matching your desired temperature. "Enjoy a Perfectly Balanced Breeze and Ideal Humidity, Tailored Just for You"



### Proactive Energy Saving

Avoid worrying about unexpected electricity bills with kW manager. Human detecting sensor and window open detection actively save energy without having to worry about it.



### Total Air Care

A multi-step filtration process with Freeze Cleaning that purifies the air, removes dust and bacteria, ensuring the air you breathe is always fresh.

# Key Feature

## Soft Air

Stay comfortably cool with no chilly drafts and personalize breeze range and temperature.

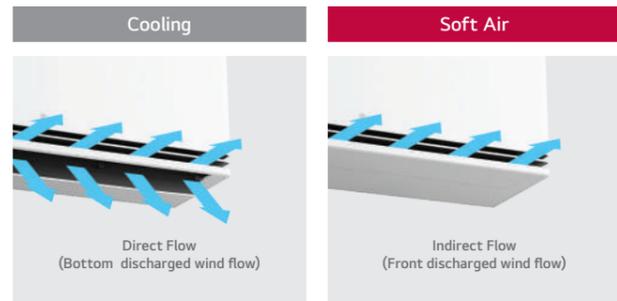
※ When connected Multi ODU, soft air function may not be supported.



When turned on, it becomes too cold, and if turned off, it becomes too hot. Additionally, when lying down on the bed, the direct cold wind can quickly make you feel uncomfortably cold.

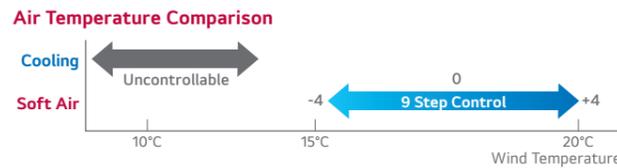
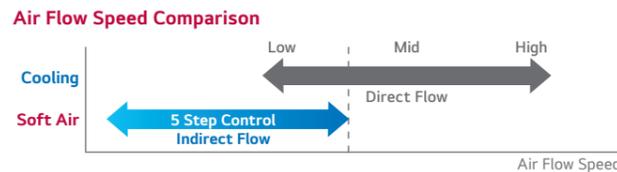
Experience a shift from excessive cold to a more comfortable and pleasant airflow—a fine-tuned wind flow for your comfort.

## Comfortable Air Flow



**Cooling**  
Room Temp. Control  
→ Always cold wind

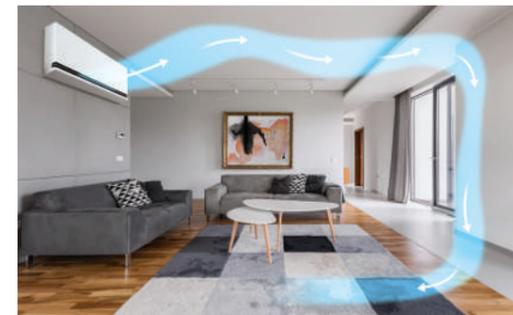
**Soft Air**  
Wind Temp. Control  
→ A pleasant, comfortable wind



※ This function can be applied Cooling / Fan mode only.  
 ※ Wind temperature can be controlled through remote controller or LG ThinQ app.  
 ※ Setting room temperature can be controlled through LG ThinQ app only.  
 ※ The wind temperature is displayed on the remote controller only in step (-4 to +4), and the temperature is not displayed.  
 ※ This feature is available when the indoor temperature is below 28°C.

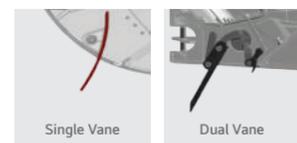
## DUAL Vane

Dual Vane spreads airflow up or down, further and faster, for ideal comfort in any season.

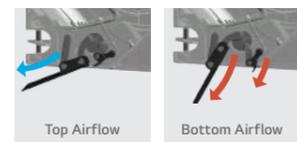


**Longer Stream Wind**  
Two separated vanes are combined to create one large single vane with the longer vane shape, the Dual Vane can send airflow further than conventional models.

**Indirect Flow**  
Dual Vane provide indirect mode for more comfortable experience compared to single vane. It provides that cold wind blows down from above of head, hot wind comes up from underneath of feet, reducing the discomfort of direct wind contact.



**Faster Cooling & Heating**  
Dual Vane can provide optimized airflow that single vane can not achieve. It enables cooling up to 23% faster and heating up to 6% faster than single vane.



※ Performance comparison vs Single Vane  
 1) Date 2023.06, Measurement results in LG air conditioner test chamber, installation height 1.8 m, Fan mode. Using a wind speed probe, the height range from 0.1 to 1.7 m is measured in 0.2 m increments. Measures the maximum distance reached by airflow more than 0.25 m/s speed from the products  
 2) Date 2023.10 LG air conditioner home environment testing chamber, 20.9 m/50.1 m, Jet Mode, Indoor DB (33±0.3)°C / RH (60±5)%, Outdoor DB (35±0.3)°C / RH (50±5)% 18°C setting on cooling mode, Indoor DB (12±0.3)°C / RH (60±5)%, Outdoor DB (7±0.3)°C / RH (87±5)% 30°C setting on heating mode, measured the time took reduce 5°C (for Cooling) / rise 5°C (for heating), from the initial average room temperature. Test Model : S3-M12KL2MB (SK), S3-M12L1C0 (S1 New Platform)

## Comfort Humidity Control

No excess chill, Comfort Humidity Control perfects your home with humidity optimized to your desired temperature.

## Comfortable Air Flow

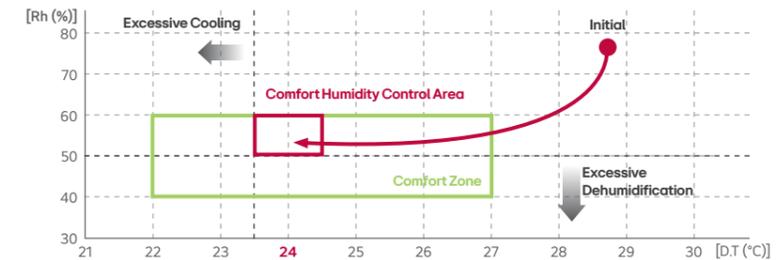
### Conventional



### LG DUALCOOL S1



### Operation Example (24°C Setting)



※ The air flow changes automatically based on the operating environment.  
 ※ This function can be used through remote controller and LG ThinQ app.  
 ※ The humidity is automatically controlled according to the temperature set by the customer.

## KW Manager by LG ThinQ

Stay cool. kW Manager lets you take control of your energy usage and spending proactively.

※ When connected to Multi ODU, this function is not supported.

## Proactive Energy Saving

**Easily manage electricity usage**  
**Smart energy saving**

**ThinQ**  
Send operating info. / Remaining Electricity, operation mode

Period / Time of Use / Target Electricity Setting → Electricity Control Operation

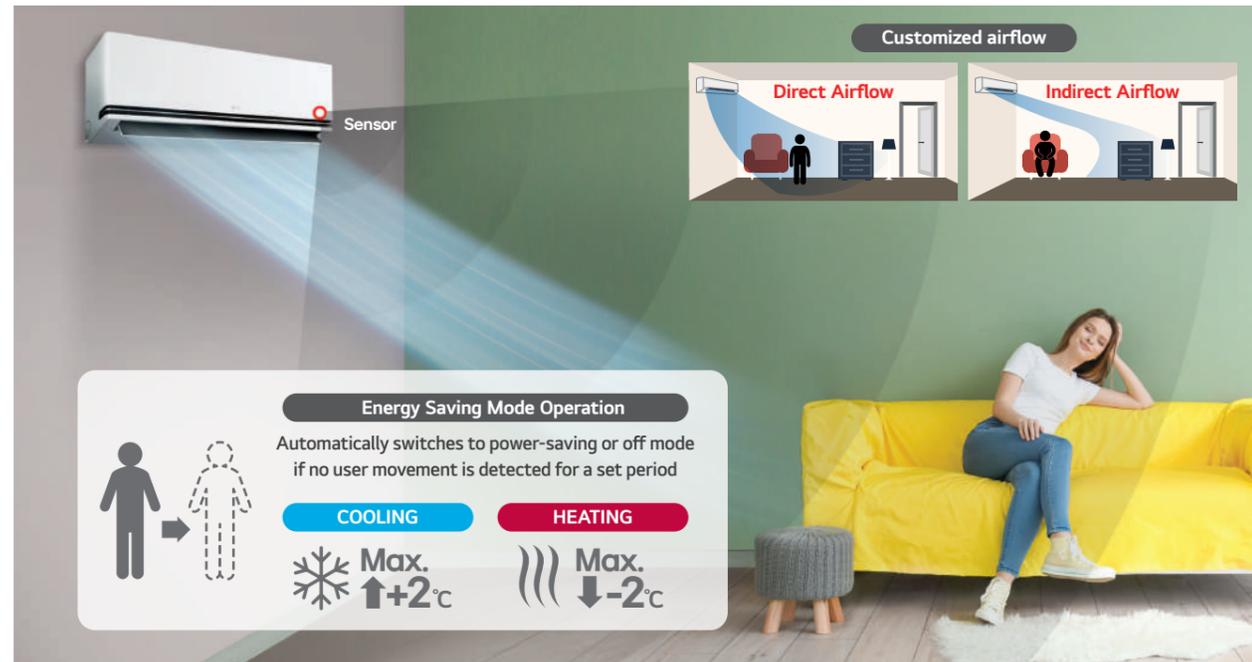
**Conventional**  
Monthly Consumption

**LG DUALCOOL S1**  
Monthly Consumption  
Energy Saving

## Human Detecting Sensor

### Proactive Energy Saving

Human Detection Sensor's location detector provides comfy airflow control and auto power-savings.

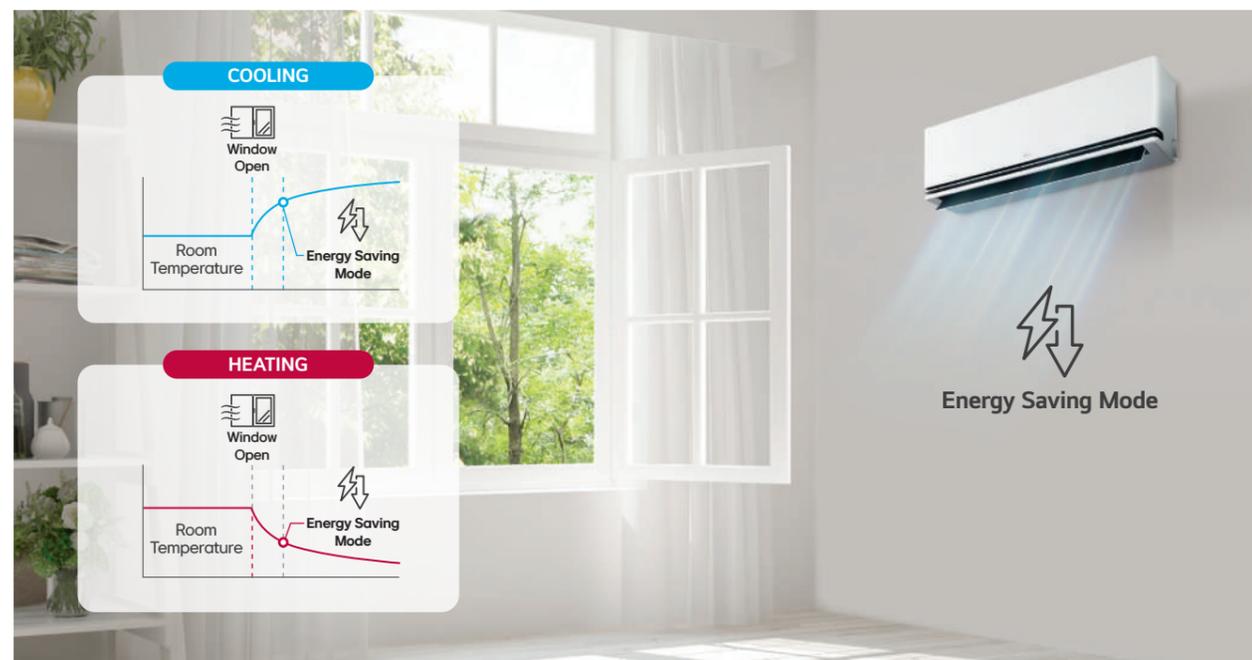


- ※ This function can be turned on/off through remote controller or LG ThinQ app.
- ※ The "Human Detection Sensor" only activates cooling and heating mode.
- ※ The judgment time of absence human detection can be set from 20 to 120 min through LG ThinQ app (Default 20 min).
- ※ Human body detection covers 100 degrees left and right based on the product, and the maximum detection distance is 5 m.
- ※ Depending on usage conditions, sensor detection range may be shortened.

## Window Open Detecting

### Proactive Energy Saving

Reduces energy loss as energy saving mode starts automatically during sudden temperature changes. Prevents condensation when window open.



- ※ The initial setting is off when the product is shipped.
- ※ This function can be set up through LG ThinQ app only.
- ※ The "Window open detection" function is available in Cooling and Heating mode only.
- ※ The default energy saving mode operating time is 10 minutes and can be set up to 60 minutes through LG ThinQ app.

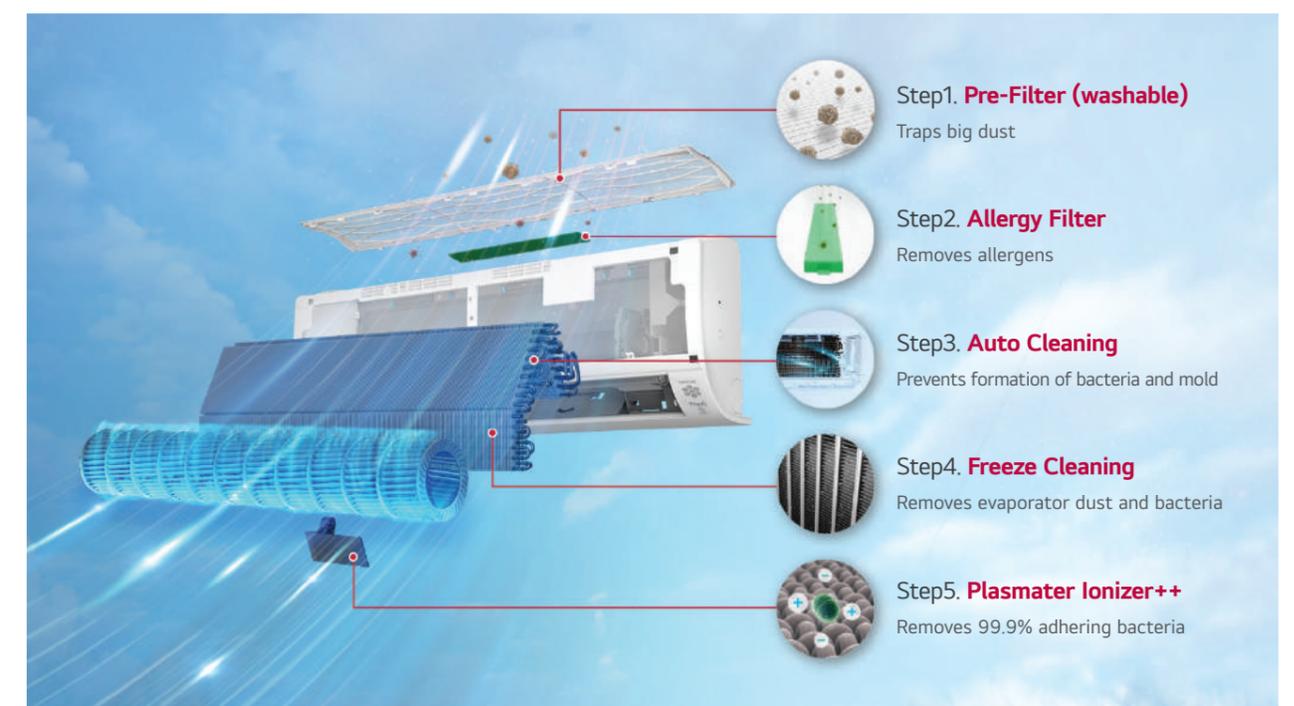
## Total Air Care

### Total Air Care

A multi-step filtration process with Freeze Cleaning that purifies the air, removing dust and even bacteria, ensuring the air you breathe is always fresh.



## How it Works



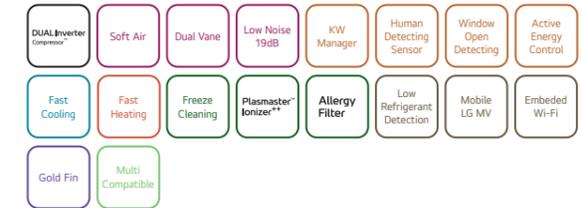


LG participates in the ECP programme for EUROVENT AC program. Check ongoing validity of certification : www.eurovent-certification.com

Single Combination

UNIT				9K	12K
INDOOR				F09MT NSM	F12MT NSM
Capacity	Cooling	Min. / Rated / Max.	kW	0.30 / 2.50 / 4.00	0.30 / 3.50 / 4.25
	Heating	Min. / Rated / Max.	kW	0.30 / 3.20 / 6.90	0.30 / 4.00 / 7.32
Power Input	Heating -7°C	Rated	kW	4.30	4.70
	Cooling / Heating	Rated	W	490 / 593	833 / 785
EER			W/W	5.10	4.20
S.E.E.R.				9.40	9.10
P design C			kW	2.50	3.50
COP			W/W	5.40	5.10
S.C.O.P		(Average / Warmer)		5.10 / 6.60	5.10 / 6.60
P design H (Average / Warmer)			kW	3.70 / 2.05	3.80 / 2.05
Energy Label (A+++ to D Scale)	Cooling			A+++	A+++
	Heating	(Average / Warmer)		A+++ / A+++	A+++ / A+++
Annual Energy Consumption	Cooling		kWh	93	135
	Heating	Average	kWh	1,016	1,043
Sound Pressure*	Cooling	S / L / M / H	dB(A)	19 / 27 / 35 / 40	19 / 27 / 35 / 40
	Heating	L / M / H	dB(A)	27 / 35 / 40	27 / 35 / 40
Sound Power	Cooling		dB(A)	60	60
	Heating	S / L / M / H / Max. (Power)	m <sup>3</sup> /min	6.6 / 8.7 / 11.1 / 12.4 / 15.5	6.6 / 8.7 / 11.1 / 12.4 / 15.5
Air Flow Rate	Cooling	L / M / H	m <sup>3</sup> /min	8.7 / 11.1 / 14.3	8.7 / 11.1 / 14.3
	Heating				
Dehumidification Rate			l/h	1.7	1.7
Running Current	Cooling	Min. / Rated / Max.	A	0.70 / 3.80 / 8.10	0.70 / 6.10 / 8.10
	Heating	Min. / Rated / Max.	A	1.05 / 4.60 / 8.80	1.05 / 5.80 / 8.80
Starting Current	Cooling / Heating	Rated	A	3.80 / 4.60	6.10 / 5.80
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker			A	15	15
Power Supply Cable			N x mm <sup>2</sup>	3 x 1.0	3 x 1.0
Power & Transmission Cable			N x mm <sup>2</sup>	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)
Dimension			mm	875 x 295 x 235	875 x 295 x 235
Net Weight			kg	11.0	11.0
Fan Motor Output			W	30	30
OUTDOOR				F09MT U24	F12MT U24
Operation Range	Cooling	Min. / Max.	°C DB	-10 / 48	-10 / 48
	Heating	Min. / Max.	°C DB	-25 / 24	-25 / 24
Sound Pressure*	Cooling / Heating	High	dB(A)	48 / 50	48 / 50
Sound Power	Cooling	High	dB(A)	65	65
Air Flow Rate		High	m <sup>3</sup> /min	49	49
Piping	Liquid (ODU / IDU)	Min. / Max.	m	3 / 20	3 / 20
	Elevation (ODU / IDU)	Min. / Max.	m	10	10
Piping Connection	Liquid	OD (Outside)	mm (inch)	6.35 (1/4)	6.35 (1/4)
	Gas	OD (Outside)	mm (inch)	9.52 (3/8)	9.52 (3/8)
Drain Hose Size		OD (Outside)	mm (inch)	21.5 (27/32)	21.5 (27/32)
Refrigerant	Type			R32	R32
	Charge at 7.5m		kg	1.000	1.000
	Additional Charge		t-CO <sub>2</sub> eq	0.675	0.675
	GWP		g/m	20	20
Fan Motor Output			W	675	675
Compressor Type				85	85
Compressor Type				Inverter Twin Rotary	Inverter Twin Rotary
Net Weight			kg	43.0	43.0
Dimension			mm	870 x 650 x 330	870 x 650 x 330
ACCESSORIES & OTHERS					
Multi Compatible				-	-
PI 485				-	-
Dry Contact				Y	Y
Wired Remote Controller				Y	Y

\* : Sound Pressure is not a value declared on Eurovent Program.  
 ※ This product contains Fluorinated greenhouse gases (R32).  
 ※ S : Sleep / L : Low / M : Medium / H : High  
 ※ GWP : Global warming potential  
 ※ t-CO<sub>2</sub>eq : F-gas(kg)\*GWP/1000  
 ※ For our policy of continuous product improvement, specification, design and feature are subject to change without prior notice.  
 ※ Y : Available or Applied / - : Not Available or Not Applied



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

Single Combination

UNIT				9K	12K
INDOOR				H09S1P.NS1	H12S1P.NS1
Capacity	Cooling	Min. / Rated / Max.	kW	0.89 / 2.50 / 4.00	0.89 / 3.50 / 4.35
	Heating	Min. / Rated / Max.	kW	0.65 / 3.20 / 5.50	0.65 / 4.00 / 6.00
Power Input	Heating -7°C	Rated	kW	3.60	4.00
	Cooling / Heating	Rated	W	510 / 640	815 / 850
EER			W/W	4.29	4.9
S.E.E.R.				9.7	9.5
P design C			kW	2.5	3.5
COP			W/W	5.00	4.71
S.C.O.P		(Average / Warmer)		5.1	5.1
P design H (Average / Warmer)			kW	2.8	2.8
Energy Label (A+++ to D Scale)	Cooling			A+++	A+++
	Heating	(Average / Warmer)		A+++	A+++
Annual Energy Consumption	Cooling		kWh	90	129
	Heating	(Average / Warmer)	kWh	769	769
Sound Pressure*	Cooling	S / L / M / H	dB(A)	19 / 27 / 35 / 40	19 / 27 / 35 / 40
	Heating	L / M / H	dB(A)	27 / 35 / 40	27 / 35 / 40
Sound Power	Cooling		dB(A)	60	60
	Heating	S / L / M / H / Max. (Power)	m <sup>3</sup> /min	2.0 / 5.7 / 8.1 / 10.5 / 13.6	2.0 / 5.7 / 8.1 / 10.5 / 13.6
Air Flow Rate	Cooling	L / M / H	m <sup>3</sup> /min	5.7 / 8.1 / 10.5	5.7 / 8.1 / 10.5
	Heating				
Dehumidification Rate			l/h	1.15	1.30
Running Current	Cooling	Min. / Rated / Max.	A	1.3 / 3.1 / 6.0	1.3 / 3.75 / 6.5
	Heating	Min. / Rated / Max.	A	1.3 / 3.2 / 7.0	1.3 / 4.0 / 7.5
Starting Current	Cooling / Heating	Rated	A	3.1 / 3.2	3.75 / 4.0
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker			A	15	15
Power Supply Cable			N x mm <sup>2</sup>	3 x 1.0	3 x 1.0
Power & Transmission Cable			N x mm <sup>2</sup>	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)
Dimension			mm	895 x 307 x 235	895 x 307 x 235
Net Weight			kg	12.5	12.5
Fan Motor Output			W	30	30
OUTDOOR				H09S1PU18	H12S1PU18
Operation Range	Cooling	Min. / Max.	°C DB	-15 / 48	-15 / 48
	Heating	Min. / Max.	°C DB	-15 / 24	-15 / 24
Sound Pressure*	Cooling / Heating	High	dB(A)	49 / 51	49 / 51
Sound Power	Cooling	High	dB(A)	65	65
Air Flow Rate		High	m <sup>3</sup> /min	35	35
Piping	Liquid (ODU / IDU)	Min. / Max.	m	3 / 20	3 / 20
	Elevation (ODU / IDU)	Min. / Max.	m	10	10
Piping Connection	Liquid	OD (Outside)	mm (inch)	6.35 (1/4)	6.35 (1/4)
	Gas	OD (Outside)	mm (inch)	9.52 (3/8)	9.52 (3/8)
Drain Hose Size		OD (Outside)	mm (inch)	21.5 (27/32)	21.5 (27/32)
Refrigerant	Type			R32	R32
	Charge at 7.5m		kg	0.900	0.900
	Additional Charge		t-CO <sub>2</sub> eq	0.608	0.608
	GWP		g/m	20	20
Fan Motor Output			W	675	675
Compressor Type				43	43
Compressor Type				Twin Rotary	Twin Rotary
Net Weight			kg	29.9	29.9
Dimension			mm	770 x 545 x 288	770 x 545 x 288
ACCESSORIES & OTHERS					
Multi Compatible				Y	Y
PI 485				Y	Y
Dry Contact				Y	Y
Wired Remote Controller				Y	Y

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