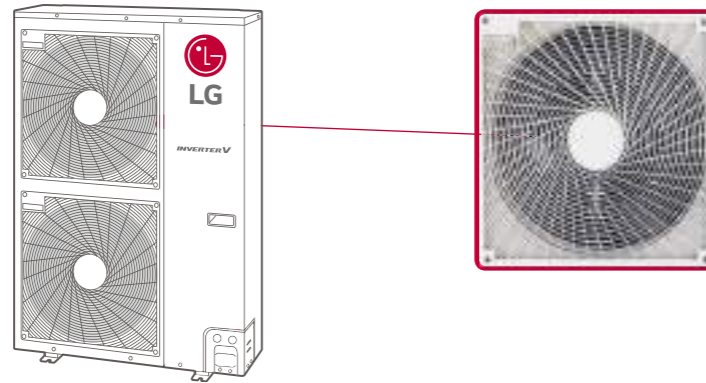


# QUIET OPERATION

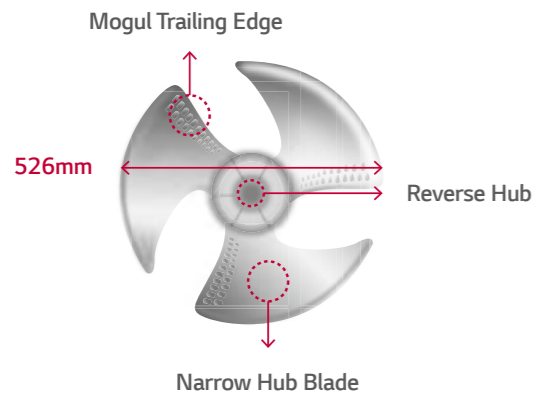
## Advanced Grille & Fan

The improved grille shape design on the outdoor unit helps to distribute air more efficiently which improves heat exchange and reduces the noise level. The new axial Fan has a thick front edge and a smooth rear edge, thus providing not only high efficiency, low noise, wide fan, but also improving the air flow rate.

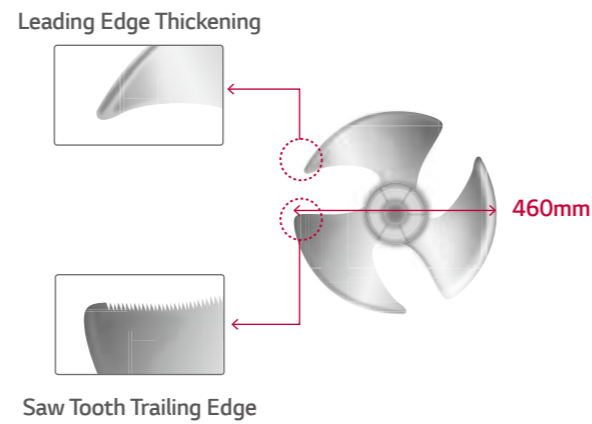
Grille



Fan Type 1



Fan Type 2



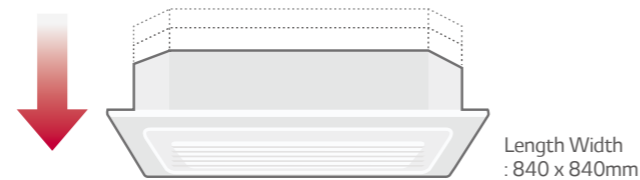
# CEILING MOUNTED CASSETTE



# CEILING MOUNTED CASSETTE

## Compact Size

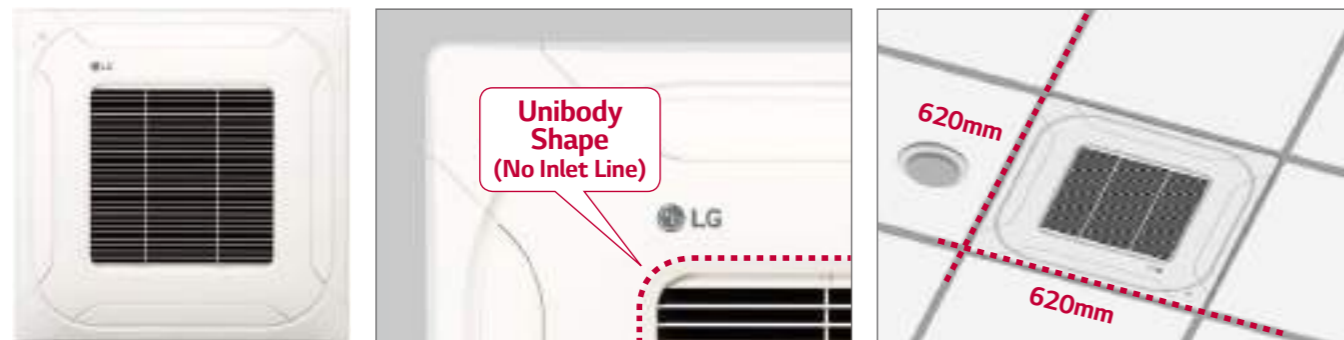
The indoor unit with slim and compact dimensions allows successful installation by easily accommodating it in various places of restricted area space.



Standard Inverter	Height
7.1 - 8.0kW	204mm
10.0kW	246mm
12.5 - 15kW	288mm

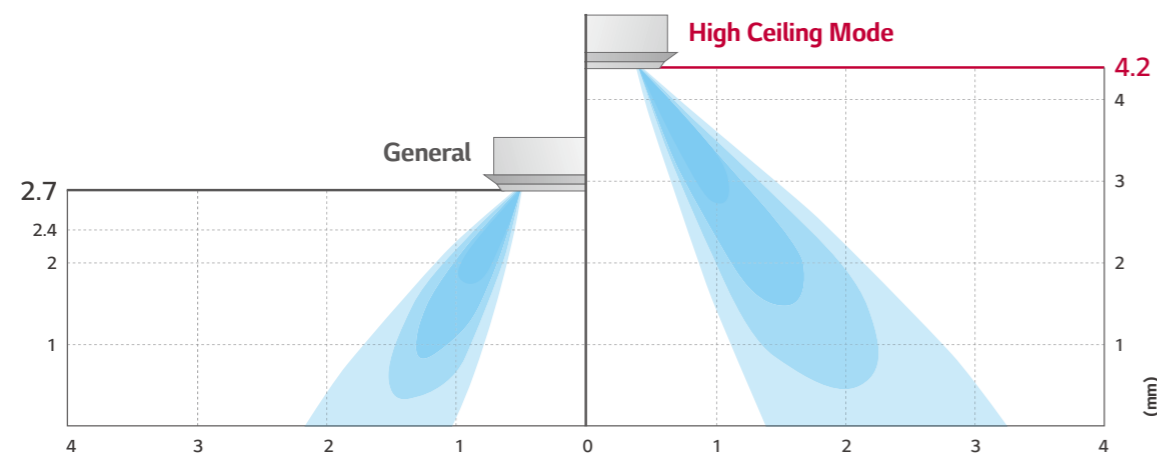
## 620 Panel – Compact and Stylish Design

- New 4 way cassette panel adapted unibody shape and matching with into the ceiling
- Panel size is fit into the ceiling tile



## High Ceiling Mode

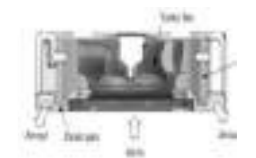
High ceiling mode provides powerful cooling and heating up to 4.2m in height, from ceiling to floor.



## Human detect sensor & humidity sensor



Human detection sensor (PTVSMA0)



### Apply human detection sensor

- Apply vision sensor
- Saving energy
- Supply comfortable flow
- Sensor is optional accessory only can be applied to PT-MCHWO

### Comfortable and Power Saving Control based on Humidity

- Apply humidity sensor
- Saving energy (To apply humidity sensor, new remote controller, PREMTB100 or PREMTBB10 is needed)

### • Detection

Motion sensors detect the activity of people per 20seconds



20seconds



### • Detection range



Height 3.2 (15 x 8m)



Height 3.5 (16 x 10m)

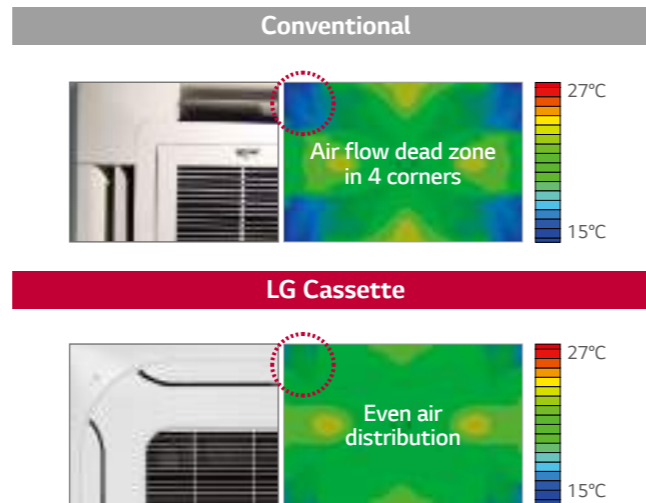
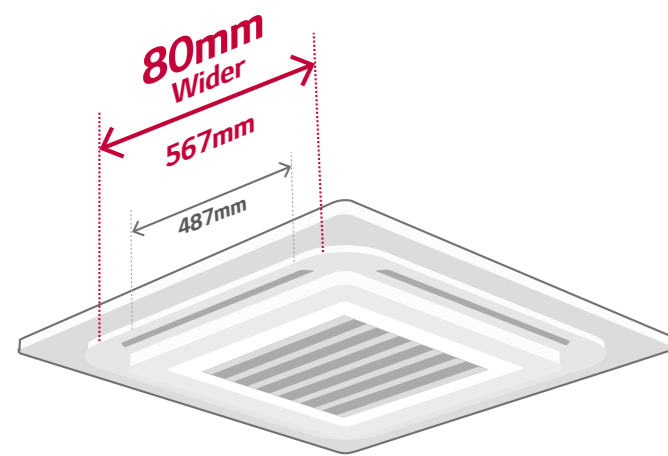


A sensor is installed 90° rotation 12 x 6m → 6 x 12m detecting

# CEILING MOUNTED CASSETTE

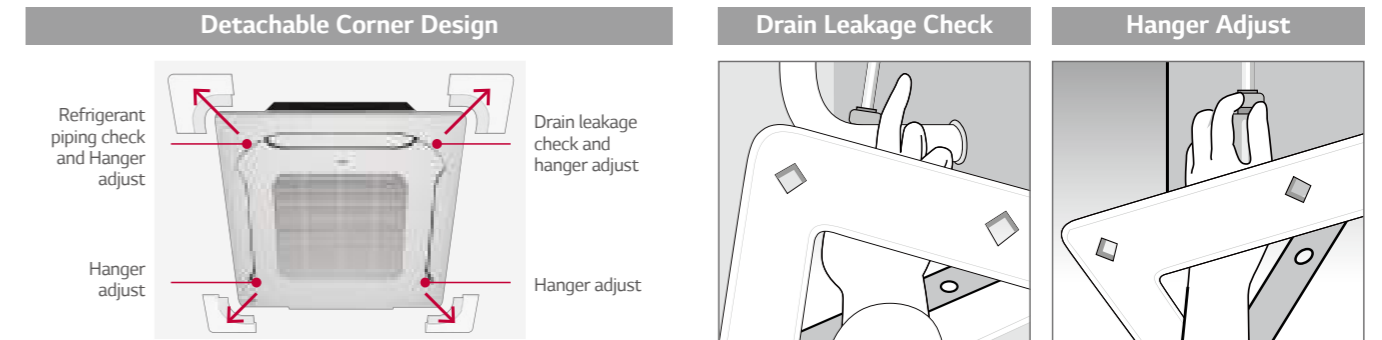
## 950/700 Panel – Wide Jet Air Flow

Improved vanes reduce the curved area and provide even distribution.

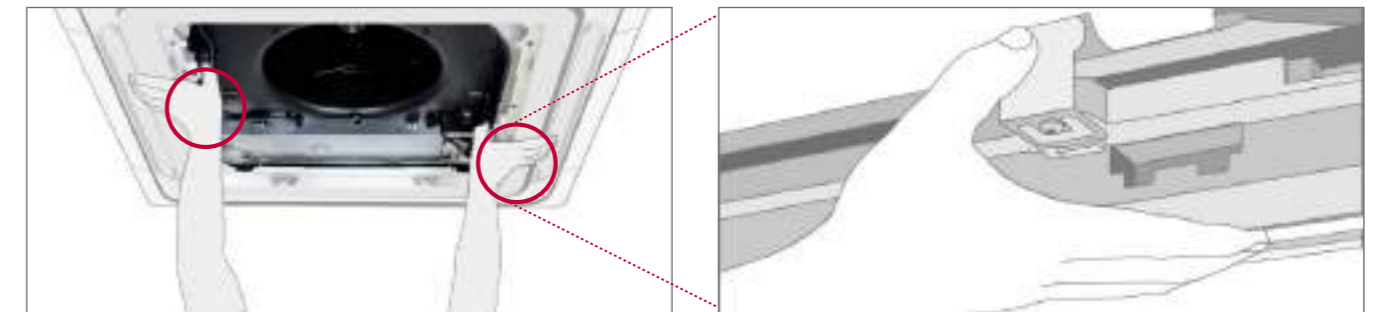


## Convenient Panel Installation

The detachable corner design makes it convenient to adjust the hanger during installation and to check for leakages in the drain connection pipe.

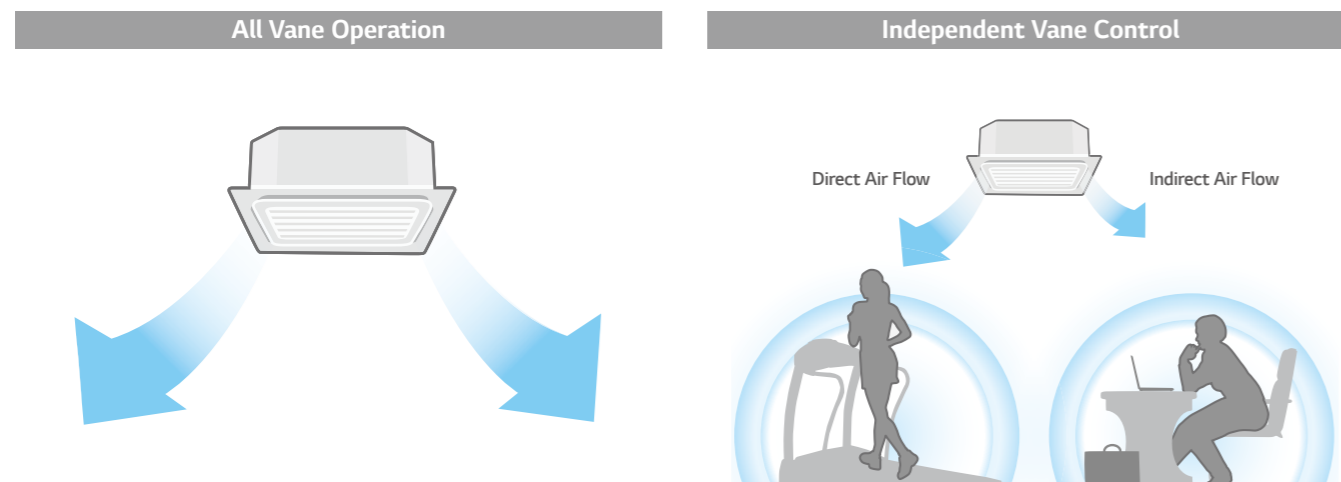


It is easy to attach the panel to the body, using the button type panel design



## Independent Vane Operation

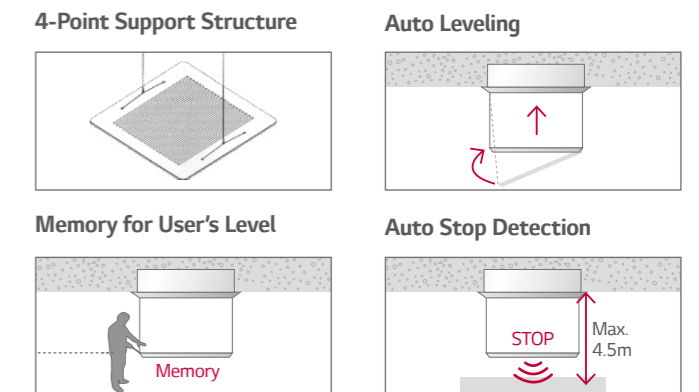
The independent vane operation feature uses separate motors, making it possible to control all four vanes independently.



\* Wired remote controller PQRCVSL0 (QW) applied

## Auto Elevation Grille

Easy filter cleaning by using the elevation grille.



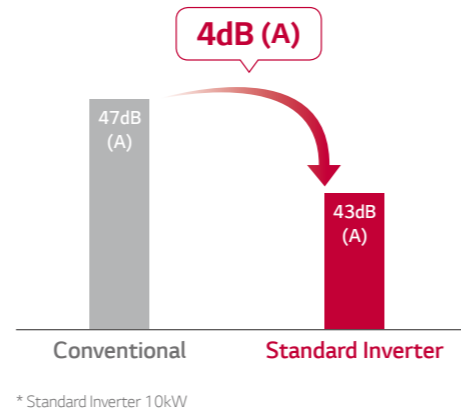
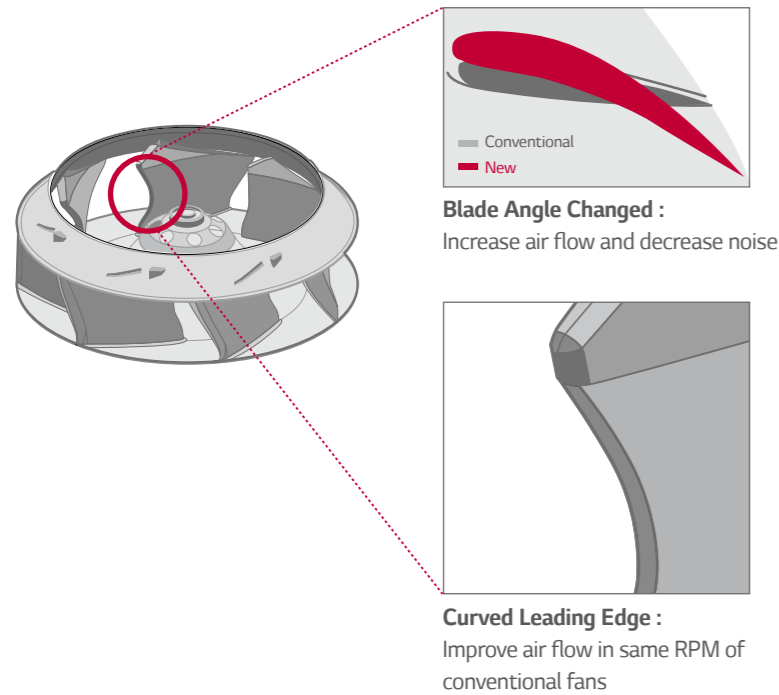
\* Operating with wired remote controller PREMTB100, PREMTB001 and wireless remote controller included in PTEGMO.  
\* Except CT09 NR2 / CT12 NR2 / CT18 NQ2  
\* Applied to cassette panel PT-UMC1



# CEILING MOUNTED CASSETTE

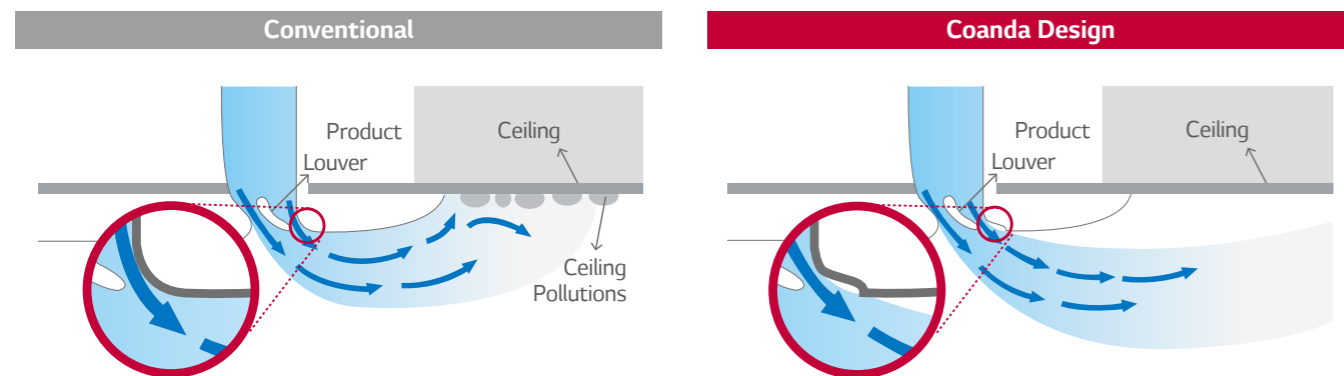
## Quiet Operation with 3D Fan

New technology of 3D fan is applied to H-Inverter cassettes 10 ~ 14kW. It increases air flow but reduces noise.



## Prevent Ceiling Pollution

Coanda design of air outlet can prevent contamination of ceiling.



# CEILING MOUNTED CASSETTE



## STANDARD INVERTER (R32)

CT09R  
CT12R  
CT18R  
CT24R



UU09WR  
UU12WR

UU18WR

UU24WR



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

INDOOR				CT09R NRO	CT12R NRO	CT18R NQO	CT24R NPO
Capacity	Cooling	Min / Nom / Max	kW	1.0 / 2.5 / 2.8	1.4 / 3.4 / 3.9	2.0 / 5.0 / 5.7	2.84 / 6.8 / 7.8
	Heating	Min / Nom / Max	kW	1.2 / 3.2 / 3.4	1.6 / 4.0 / 4.6	2.2 / 5.8 / 6.8	3.2 / 8.0 / 8.8
Low Temperature Capacity	Heating -7°C	Max	kW	2.7	3.6	4.9	7.2
	Cooling	Nom	kW	0.63	0.97	1.56	1.94
Power Input (Set)	Heating	Nom	kW	0.75	1.12	1.66	2.00
	Power Input (Indoor)	Min / Nom / Max	W	10 / 20 / 20	10 / 20 / 20	10 / 30 / 40	20 / 50 / 60
Running Current	Cooling / Heating	Nom	A	2.7 / 3.5	4.3 / 5.0	7.1 / 7.5	8.6 / 8.8
Power Supply		Ø / V / Hz		1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				4.00	3.51	3.21	3.51
COP				4.00	3.58	3.49	4.00
SEER				6.77	6.58	6.25	7.70
SCOP				4.36	4.40	4.25	4.60
Pdesign (@-10°C)			kW	3.0	3.0	4.1	5.8
Seasonal Energy Label	Cooling / Heating (A++ to E Scale)			A++ / A+	A++ / A+	A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	129 / 963	181 / 955	280 / 1,351	309 / 1,765
	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
Piping Connection	Gas		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 12.7 (1/2)	Ø 15.88 (5/8)
	Drain		mm	32 / 25	32 / 25	32 / 25	32 / 25
	O.D. / I.D.						
Air Flow Rate	High / Medium / Low		m³/min	8.5 / 7.0 / 6.0	9.5 / 8.0 / 7.0	13.0 / 12.0 / 11.0	17.0 / 15.0 / 13.0
Sound Pressure	Cooling	High / Medium / Low	dBA	36 / 33 / 30	38 / 35 / 32	41 / 39 / 36	38 / 36 / 34
	Cooling	Max	dBA	52	52	57	57
Dehumidification Rate			l/h	0.9	1.4	2.0	2.7
Dimensions	Body	W x H x D	mm	570 x 214 x 570	570 x 214 x 570	570 x 256 x 570	840 x 204 x 840
	Body		kg	14.0	14.0	14.3	20.5
Net Weight	Model			PT-QCHW0	PT-QCHW0	PT-QCHW0	PT-MCHW0
	Color			Morning Fog	Morning Fog	Morning Fog	Morning Fog
Decoration Panel	Dimensions	W x H x D	mm	620 x 20 x 620	620 x 20 x 620	620 x 20 x 620	950 x 25 x 950
	Weight		kg	3.0	3.0	3.0	6.3

OUTDOOR				UU09WR ULO	UU12WR ULO	UU18WR U20	UU24WR U40
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate	Nom		m³/min	32	32	50	58
	Cooling	Nom	dBA	47	49	47	48
Sound Pressure	Heating	Nom	dBA	50	52	52	52
	Cooling	Max	dBA	65	65	63	67
Dimensions	W x H x D		mm	770 x 545 x 288	770 x 545 x 288	870 x 650 x 330	950 x 834 x 330
Net Weight			kg	33.8	33.8	44.8	56.1
Refrigerant	Type			R32	R32	R32	R32
	Charge		g	900	900	1,100	1,600
	Additional Charge (after 7.5m)		g/m	20	20	20	35
	GWP			675	675	675	675
Operation Range (Outdoor)	t-CO <sub>2</sub> eq			0.61	0.61	0.74	1.08
	Cooling	Min - Max	°C DB	-15 - 48	-15 - 48	-15 - 48	-15 - 48
Power Supply	Heating	Min - Max	°C WB	-18 - 18	-18 - 18	-18 - 18	-18 - 18
	Power Supply Cable		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Transmission Cable			No. x mm²	3C x 2.5	3C x 2.5	3C x 2.5	3C x 2.5
Circuit Breaker			A	15	15	20	25
Piping Length Total	Min - Max		m	5-20	5-20	5-30	5-50
Piping Elevation Difference	IDU - ODU	Max	m	15	15	30	30
	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
Piping Connection	Gas		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 12.7 (1/2)	Ø 15.88 (5/8)

Note: 1. Due to our policy of innovation some specifications may be changed without notification.  
2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
3. Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
5. This product contains fluorinated greenhouse gases (R32)

# CEILING MOUNTED CASSETTE



## STANDARD INVERTER (R32)

UT36R  
UT42R  
UT48R  
UT60R



UU36WR UU42WR  
UU48WR UU60WR



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

## STANDARD INVERTER (R32)

UT36R  
UT42R  
UT48R  
UT60R



UU37WR UU42WR  
UU49WR UU61WR



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Check ongoing validity of certification  
:www.eurovent-certification.com



INDOOR				UT36R.NM0	UT42R.NM0	UT48R.NM0	UT60R.NM0
Capacity	Cooling	Min / Nom / Max	kW	4.5 / 9.5 / 13.0	5.0 / 12.0 / 14.5	5.5 / 13.4 / 16.0	5.9 / 14.6 / 16.3
	Heating	Min / Nom / Max	kW	5.0 / 10.8 / 13.7	5.5 / 13.5 / 16.5	6.1 / 15.5 / 18.0	6.8 / 16.9 / 18.7
Low Temperature Capacity	Heating -7°C	Max	kW	9.8	12.5	14.3	15.2
Power Input (Set)	Cooling	Nom	kW	2.47	3.50	4.35	5.38
	Heating	Nom	kW	2.80	3.75	4.82	5.60
Power Input (Indoor)		Min / Nom / Max	W	40 / 190 / 210	40 / 190 / 210	40 / 190 / 210	40 / 190 / 210
Running Current	Cooling / Heating	Nom	A	10.7 / 12.2	15.2 / 16.3	18.9 / 21.0	23.4 / 24.3
Power Supply		Ø / V / Hz		1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.85	3.43	3.08	2.71
COP				3.86	3.60	3.22	3.02
SEER				6.50	6.10	5.87	5.57
SCOP				4.30	4.10	4.04	3.92
Pdesign (@-10°C)			kW	8.05	8.05	9.30	9.30
Seasonal Energy Label	Cooling / Heating			A++ / A+ (A++ to E Scale)	A++ / A+	-	-
Annual Energy Consumption	Cooling / Heating		kWh	512 / 2,605	689 / 2,732	1,370 / 3,223	1,573 / 3,321
	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Piping Connection	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25	32 / 25	32 / 25
	Air Flow Rate	High / Medium / Low	m <sup>3</sup> /min	30.0 / 25.0 / 20.0	33.0 / 28.0 / 22.0	33.0 / 28.0 / 22.0	33.0 / 28.0 / 22.0
Sound Pressure	Cooling	High / Medium / Low	dBA	46 / 43 / 40	47 / 44 / 41	47 / 44 / 41	47 / 44 / 41
Sound Power	Cooling	Max	dBA	62	64	64	66
Dehumidification Rate			l/h	2.7	4.2	5.2	6.2
Dimensions	Body	W x H x D	mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
Net Weight	Body		kg	24.6	24.6	24.6	24.6
	Model			PT-MCHW0	PT-MCHW0	PT-MCHW0	PT-MCHW0
Decoration Panel	Color			Morning Fog	Morning Fog	Morning Fog	Morning Fog
	Dimensions	W x H x D	mm	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950
	Weight		kg	6.3	6.3	6.3	6.3

INDOOR				UT36R.NM0	UT42R.NM0	UT48R.NM0	UT60R.NM0
Capacity	Cooling	Min / Nom / Max	kW	4.5 / 9.5 / 13.0	5.0 / 12.0 / 14.5	5.5 / 13.4 / 16.0	5.9 / 14.6 / 16.3
	Heating	Min / Nom / Max	kW	5.0 / 10.8 / 13.7	5.5 / 13.5 / 16.5	6.1 / 15.5 / 18.0	6.8 / 16.9 / 18.7
Low Temperature Capacity	Heating -7°C	Max	kW	9.8	12.5	14.3	15.2
Power Input (Set)	Cooling	Nom	kW	2.47	3.50	4.35	5.38
	Heating	Nom	kW	2.80	3.75	4.82	5.60
Power Input (Indoor)		Min / Nom / Max	W	40 / 190 / 210	40 / 190 / 210	40 / 190 / 210	40 / 190 / 210
Running Current	Cooling / Heating	Nom	A	3.6 / 4.0	5.1 / 5.4	5.8 / 6.4	7.8 / 8.1
Power Supply		Ø / V / Hz		1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.85	3.43	3.08	2.71
COP				3.86	3.60	3.22	3.02
SEER				6.50	6.18	5.87	5.57
SCOP				4.30	4.17	4.04	3.92
Pdesign (@-10°C)			kW	8.05	8.05	9.30	9.30
Seasonal Energy Label	Cooling / Heating			A++ / A+ (A++ to E Scale)	A++ / A+	-	-
Annual Energy Consumption	Cooling / Heating		kWh	512 / 2,605	689 / 2,732	1,370 / 3,223	1,573 / 3,321
	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Piping Connection	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25	32 / 25	32 / 25
	Air Flow Rate	High / Medium / Low	m <sup>3</sup> /min	30.0 / 25.0 / 20.0	33.0 / 28.0 / 22.0	33.0 / 28.0 / 22.0	33.0 / 28.0 / 22.0
Sound Pressure	Cooling	High / Medium / Low	dBA	46 / 43 / 40	47 / 44 / 41	47 / 44 / 41	47 / 44 / 41
Sound Power	Cooling	Max	dBA	62	64	64	66
Dehumidification Rate			l/h	2.7	4.2	5.2	6.2
Dimensions	Body	W x H x D	mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
Net Weight	Body		kg	24.6	24.6	24.6	24.6
	Model			PT-MCHW0	PT-MCHW0	PT-MCHW0	PT-MCHW0
Decoration Panel	Color			Morning Fog	Morning Fog	Morning Fog	Morning Fog
	Dimensions	W x H x D	mm	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950
	Weight		kg	6.3	6.3	6.3	6.3

OUTDOOR				UU36WR.U30	UU42WR.U30	UU48WR.U30	UU60WR.U30
Compressor	Type			R-Scroll	R-Scroll	R-Scroll	R-Scroll
Airflow Rate	Nom		m <sup>3</sup> /min	110	110	110	110
Sound Pressure	Cooling	Nom	dBA	52	52	52	52
	Heating	Nom	dBA	54	54	54	54
Sound Power	Cooling	Max	dBA	66	67	68	68
Dimensions	W x H x D		mm	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330
Net Weight			kg	87.5	87.5	87.5	87.5
	Type			R32	R32	R32	R32
Refrigerant	Charge		g	3,000	3,000	3,000	3,000
	Additional Charge (after 7.5m)		g/m	40	40	40	40
	GWP			675	675	675	675
	t-CO <sub>2</sub> eq			2.03	2.03	2.03	2.03
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-15 - 48	-15 - 48	-15 - 48	-15 - 48
	Heating	Min - Max	°C WB	-25 - 18	-25 - 18	-25 - 18	-25 - 18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm <sup>2</sup>	3C x 6.0	3C x 6.0	3C x 6.0	3C x 6.0
Transmission Cable			No. x mm <sup>2</sup>	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	40	40	40	40
Piping Length Total		Min - Max	m	5-85	5-85	5-85	5-85
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30	30
	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Piping Connection	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)

OUTDOOR				UU37WR.U30	UU43WR.U30	UU49WR.U30	UU61WR.U30
Compressor	Type			R-Scroll	R-Scroll	R-Scroll	R-Scroll
Airflow Rate	Nom		m <sup>3</sup> /min	110	110	110	110
Sound Pressure	Cooling	Nom	dBA	52	52	52	52
	Heating	Nom	dBA	54	54	54	54
Sound Power	Cooling	Max	dBA	66	67	68	68
Dimensions	W x H x D		mm	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330
Net Weight			kg	87.5	87.5	87.5	87.5
	Type			R32	R32	R32	R32
Refrigerant	Charge		g	3,000	3,000	3,000	3,000
	Additional Charge (after 7.5m)		g/m	40	40	40	40
	GWP			675	675	675	675
	t-CO <sub>2</sub> eq			2.03	2.03	2.03	2.03
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-15 - 48	-15 - 48	-15 - 48	-15 - 48
	Heating	Min - Max	°C WB	-25 - 18	-25 - 18	-25 - 18	-25 - 18
Power Supply			Ø / V / Hz	3 / 380-415 / 50	3 / 380-415 / 50	3 / 380-415 / 50	3 / 380-415 / 50
Power Supply Cable			No. x mm <sup>2</sup>	5C x 2.5	3C x 6.0	5C x 2.5	5C x 2.5
Transmission Cable			No. x mm <sup>2</sup>	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	20	20	20	20
Piping Length Total		Min - Max	m	5-85	5-85	5-85	5-85
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30	30
	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Piping Connection	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
3. Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
5. This product contains fluorinated greenhouse gases (R32)

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5. This product contains fluorinated greenhouse gases (R32)

# CEILING MOUNTED CASSETTE

## STANDARD INVERTER (R410A)

CT09  
CT12  
CT18



UU09W  
UU12W



UU18W



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INDOOR				CT09 NR2	CT12 NR2	CT18 NQ4
Capacity	Cooling	Min / Nom / Max	kW	1.0 / 2.5 / 2.8	1.4 / 3.4 / 3.7	2.0 / 5.0 / 5.5
	Heating	Min / Nom / Max	kW	1.2 / 3.0 / 3.3	1.6 / 4.0 / 4.4	2.2 / 5.8 / 6.8
Low Temperature Capacity	Heating -7°C	Max	kW	2.7	3.6	4.9
	Cooling	Nom	kW	0.75	1.06	1.56
Power Input (Set)	Heating	Nom	kW	0.81	1.10	1.66
	Power Input (Indoor)	Nom	W	20	20	40
Running Current	Cooling / Heating	Nom	A	3.3 / 3.5	4.61 / 4.78	7.1 / 7.5
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.33	3.21	3.22
COP				3.70	3.64	3.62
SEER				5.11	5.61	6.10
SCOP				3.81	3.91	4.25
Pdesign (@ -10°C)			kW	2.8	3.0	4.1
Seasonal Energy Label	Cooling / Heating (A++ to E Scale)			A / A	A+ / A	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	172 / 1,032	213 / 1,077	287 / 1,351
	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
Piping Connection	Gas		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 12.7 (1/2)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25	32 / 25
	Air Flow Rate	High / Medium / Low	m³/min	8.5 / 7.0 / 6.0	9.5 / 8.0 / 7.0	13.0 / 12.0 / 11.0
Sound Pressure	Cooling	High / Medium / Low	dBA	36 / 33 / 30	38 / 35 / 32	41 / 39 / 36
Sound Power	Cooling	Max	dBA	48	51	57
Dehumidification Rate			l/h	1.4	1.7	2.1
Dimensions	Body	W x H x D	mm	570 x 214 x 570	570 x 214 x 570	570 x 256 x 570
Net Weight	Body		kg	14.0	14.0	15.3
	Model			PT-UQC, PT-QCHW0		
Decoration Panel	Color			Morning Fog (RAL 120-4)		
	Dimensions	W x H x D	mm	700 x 22 x 700, 620 x 20 x 620		
	Weight			3.0		

OUTDOOR				UU09W ULD	UU12W ULD	UU18W UE4
Compressor	Type			Rotary	Rotary	Twin Rotary
Airflow Rate	Nom			32	32	50
Sound Pressure	Cooling			47	47	47
	Heating			48	48	52
Sound Power	Cooling			56	57	63
Dimensions	W x H x D			770 x 540 x 245	770 x 540 x 245	870 x 655 x 320
Net Weight			kg	32.0	32.0	44.6
Refrigerant	Type			R410A	R410A	R410A
	Charge			1,000	1,000	1,300
	Additional Charge			20	20	20
	GWP			2,087.5	2,087.5	2,087.5
	TCO2eq			2.1	2.1	2.7
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-10 - 43	-10 - 43	-15 - 48
	Heating	Min - Max	°C WB	-18 - 18	-18 - 18	-18 - 18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm²	3C x 2.5	3C x 2.5	3C x 2.5
Transmission Cable			No. x mm²	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	15	15	20
Piping Length Total			m	5-15	5-15	5-30
Piping Elevation Difference	IDU - ODU	Max	m	10	10	30
Piping Connection	Liquid			Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas			Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 12.7 (1/2)

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
3. Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
5. This product contains fluorinated greenhouse gases (R410A)

## STANDARD INVERTER (R410A)

CT24  
UT30



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INDOOR				CT24 NP4	UT30 NP4
Capacity	Cooling	Min / Nom / Max	kW	2.8 / 6.8 / 7.8	3.2 / 8.0 / 8.8
	Heating	Min / Nom / Max	kW	3.2 / 8.0 / 8.8	3.6 / 9.0 / 9.9
Low Temperature Capacity	Heating -7°C	Max	kW	7.2	8.1
	Cooling	Nom	kW	2.00	2.49
Power Input (Set)	Heating	Nom	kW	2.22	2.72
	Power Input (Indoor)	Nom	W	60	80
Running Current	Cooling / Heating	Nom	A	8.9 / 9.7	10.8 / 11.8
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.70	3.21
COP				3.62	3.31
SEER				6.80	6.30
SCOP				4.20	4.00
Pdesign (@ -10°C)			kW	6.3	6.8
Seasonal Energy Label	Cooling / Heating (A++ to E Scale)			A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	350 / 2,110	444 / 2,380
	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Piping Connection	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25
	Air Flow Rate	High / Medium / Low	m³/min	17.0 / 15.0 / 13.0	19.0 / 17.0 / 15.0
Sound Pressure	Cooling	High / Medium / Low	dBA	38 / 36 / 34	40 / 37 / 35
Sound Power	Cooling	Max	dBA	57	58
Dehumidification Rate			l/h	2.4	2.5
Dimensions	Body	W x H x D	mm	840 x 204 x 840	840 x 204 x 840
Net Weight	Body		kg	20.5	20.5
	Model			PT-UMC1	
Decoration Panel	Color			Morning Fog (RAL 120-4)	
	Dimensions	W x H x D	mm	950 x 25 x 950	
	Weight			5.0	

OUTDOOR				UU24W U44	UU30W U44
Compressor	Type			Twin Rotary	Twin Rotary
Airflow Rate	Nom			58	58
Sound Pressure	Cooling			48	48
	Heating			52	52
Sound Power	Cooling			67	68
Dimensions	W x H x D			950 x 834 x 330	950 x 834 x 330
Net Weight			kg	56.1	58.0
Refrigerant	Type			R410A	R410A
	Charge			2,000	2,000
	Additional Charge			40	40
	GWP			2,087.5	2,087.5
	TCO2eq			4.2	4.2
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-15 - 48	-15 - 48
	Heating	Min - Max	°C WB	-18 - 18	-18 - 18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm²	3C x 2.5	3C x 2.5
Transmission Cable			No. x mm²	4C x 0.75	4C x 0.75
Circuit Breaker			A	25	25
Piping Length Total			m	5 - 50	5 - 50
Piping Elevation Difference	IDU - ODU	Max	m	30	30
Piping Connection	Liquid			Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas			Ø 15.88 (5/8)	Ø 15.88 (5/8)

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2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
3. Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
5. This product contains fluorinated greenhouse gases (R410A)

# CEILING MOUNTED CASSETTE

## STANDARD INVERTER (R410A)

UT36  
UT42  
UT48  
UT60



UU36W  
UU42W  
UU48W  
UU60W



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INDOOR			UT36 NN2	UT42 NM2	UT48 NM2	UT60 NM2	
Capacity	Cooling	Min / Nom / Max	kW	4.0 / 10.0 / 11.0	5.0 / 12.5 / 13.8	5.5 / 13.9 / 15.7	5.9 / 14.6 / 16.3
	Heating	Min / Nom / Max	kW	4.4 / 11.0 / 12.1	5.0 / 14.0 / 15.4	6.4 / 15.4 / 17.6	6.8 / 16.9 / 18.7
Low Temperature Capacity	Heating -7°C	Max	kW	9.8	12.5	14.3	15.2
		Nom	kW	2.82	3.89	4.62	5.40
Power Input (Set)	Cooling	Nom	kW	3.09	3.88	4.51	5.50
	Heating	Nom	W	140	210	210	210
Power Input (Indoor)		Nom	W	140	210	210	210
Running Current	Cooling / Heating	Nom	A	12.3 / 13.4	16.9 / 16.9	20.1 / 19.6	23.5 / 23.9
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.55	3.21	3.01	2.70
COP				3.56	3.61	3.41	3.07
SEER				5.41	5.40	5.40	5.30
SCOP				3.81	3.55	3.55	3.55
Pdesign (@ -10°C)			kW	7.6	12.8	12.8	12.8
Seasonal Energy Label	Cooling / Heating		A / A (A++ to E Scale)	-	-	-	-
Annual Energy Consumption	Cooling / Heating		kWh	648 / 2,800	-	-	-
	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Piping Connection	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25	32 / 25	32 / 25
	Air Flow Rate	High / Medium / Low	m³/min	24.0 / 22.0 / 19.0	30.0 / 28.0 / 26.0	34.0 / 32.0 / 30.0	34.0 / 32.0 / 30.0
Sound Pressure	Cooling	High / Medium / Low	dBA	43 / 40 / 37	46 / 44 / 43	49 / 47 / 45	49 / 47 / 45
Sound Power	Cooling	Max	dBA	62	65	66	66
Dehumidification Rate			l/h	2.7	3.6	4.4	5.5
Dimensions	Body	W x H x D	mm	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
	Body		kg	22.3	24.6	24.6	24.6
Net Weight	Model			PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1
	Color			Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)
	Dimensions	W x H x D	mm	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950
	Weight		kg	5.0	5.0	5.0	5.0

OUTDOOR			UU36W UO2	UU42W U32	UU48W U32	UU60W U32
Compressor	Type		Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate	Nom	m³/min	90	110	110	110
Sound Pressure	Cooling	Nom	dBA	53	52	52
	Heating	Nom	dBA	54	54	54
Sound Power	Cooling	Max	dBA	66	67	71
Dimensions	W x H x D	mm	950 x 1,170 x 330	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330
Net Weight		kg	81.0	92.0	92.0	92.0
Refrigerant	Type		R410A	R410A	R410A	R410A
	Charge		g	2,800	3,400	3,400
	Additional Charge		g/m	40	40	40
	GWP			2087.5	2087.5	2087.5
	TCO2eq			5.8	7.1	7.1
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-15 - 48	-15 - 48	-15 - 48
	Heating	Min - Max	°C WB	-18 - 18	-18 - 18	-18 - 18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm²	3C x 5.0	3C x 5.0	3C x 5.0
Transmission Cable			No. x mm²	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	40	40	40
Piping Length Total		Min - Max	m	5 - 50	5 - 75	5 - 75
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30
Piping Connection	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
3. Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
5. This product contains fluorinated greenhouse gases (R410A)

## STANDARD INVERTER (R410A)

UT36  
UT42  
UT48  
UT60



UU37W  
UU43W  
UU49W  
UU61W



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INDOOR			UT36 NN2	UT42 NM2	UT48 NM2	UT60 NM2	
Capacity	Cooling	Min / Nom / Max	kW	4.0 / 10.0 / 11.0	5.0 / 12.5 / 13.8	5.5 / 13.9 / 15.7	5.9 / 14.6 / 16.3
	Heating	Min / Nom / Max	kW	4.4 / 11.0 / 12.1	5.0 / 14.0 / 15.4	6.4 / 15.3 / 17.6	6.8 / 16.9 / 18.7
Low Temperature Capacity	Heating -7°C	Max	kW	9.8	12.5	14.3	15.2
		Nom	kW	2.82	3.89	4.62	5.40
Power Input (Set)	Cooling	Nom	kW	3.09	3.88	4.49	5.50
	Heating	Nom	W	140	210	210	210
Power Input (Indoor)		Nom	W	140	210	210	210
Running Current	Cooling / Heating	Nom	A	4.1 / 4.5	5.6 / 5.6	6.7 / 6.5	7.8 / 8.0
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.55	3.21	3.01	2.70
COP				3.56	3.61	3.41	3.07
SEER				5.41	5.40	5.40	5.30
SCOP				3.81	3.55	3.55	3.55
Pdesign (@ -10°C)			kW	7.6	12.8	12.8	12.8
Seasonal Energy Label	Cooling / Heating		A / A (A++ to E Scale)	-	-	-	-
Annual Energy Consumption	Cooling / Heating		kWh	648 / 2,800	-	-	-
	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Piping Connection	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25	32 / 25	32 / 25
	Air Flow Rate	High / Medium / Low	m³/min	24.0 / 22.0 / 19.0	30.0 / 28.0 / 26.0	34.0 / 32.0 / 30.0	34.0 / 32.0 / 30.0
Sound Pressure	Cooling	High / Medium / Low	dBA	43 / 40 / 37	46 / 44 / 43	49 / 47 / 45	49 / 47 / 45
Sound Power	Cooling	Max	dBA	62	65	66	66
Dehumidification Rate			l/h	2.7	3.6	4.4	5.5
Dimensions	Body	W x H x D	mm	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
	Body		kg	22.3	24.6	24.6	24.6
Net Weight	Model			PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1
	Color			Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)
	Dimensions	W x H x D	mm	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950
	Weight		kg	5.0	5.0	5.0	5.0

OUTDOOR			UU37W UO2	UU43W U32	UU49W U32	UU61W U32
Compressor	Type		Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate	Nom	m³/min	90	110	110	110
Sound Pressure	Cooling	Nom	dBA	53	52	52
	Heating	Nom	dBA	54	54	54
Sound Power	Cooling	Max	dBA	66	67	71
Dimensions	W x H x D	mm	950 x 1,170 x 330	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330
Net Weight		kg	85.0	96.0	96.0	96.0
Refrigerant	Type		R410A	R410A	R410A	R410A
	Charge		g	2,800	3,400	3,400
	Additional Charge		g/m	40	40	40
	GWP			2087.5	2087.5	2087.5
	TCO2eq			5.8	7.1	7.1
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-15 - 48	-15 - 48	-15 - 48
	Heating	Min - Max	°C WB	-18 - 18	-18 - 18	-18 - 18
Power Supply			Ø / V / Hz	3 / 380-415 / 50	3 / 380-415 / 50	3 / 380-415 / 50
Power Supply Cable			No. x mm²	5C x 2.5	5C x 2.5	5C x 2.5
Transmission Cable			No. x mm²	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	20	20	20
Piping Length Total		Min - Max	m	5 - 50	5 - 75	5 - 75
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30
Piping Connection	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
3. Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
5. This product contains fluorinated greenhouse gases (R410A)



# CEILING CONCEALED DUCT



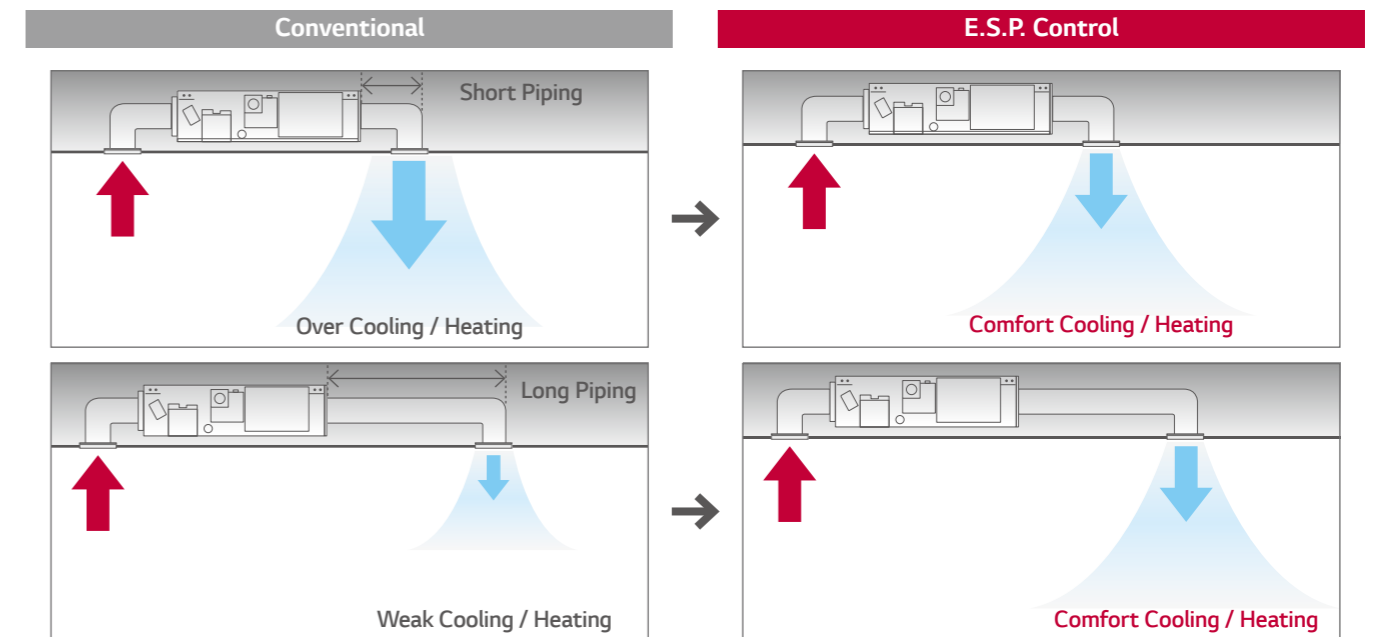
## SINGLE SPLIT KEY FEATURES

# CEILING CONCEALED DUCT

COMMERCIAL

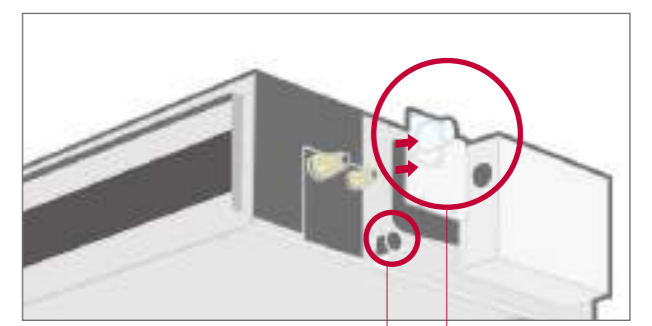
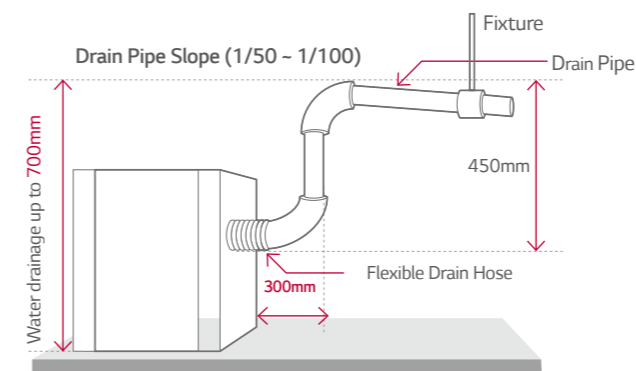
## E.S.P. (External Static Pressure) Control

This function easily controls volume of the air by a remote controller. The BLDC motor can control fan speed and air volume regardless of the external static pressure. Additional accessories are not required to control air flow.



## High Head Drain Pump

High head drain pump automatically drains water up to a height of 200mm of drain-head height. It provides the perfect solution for draining of water. (Standard Inverter : Accessory (ABDPG) / Low-Static Duct : Included)



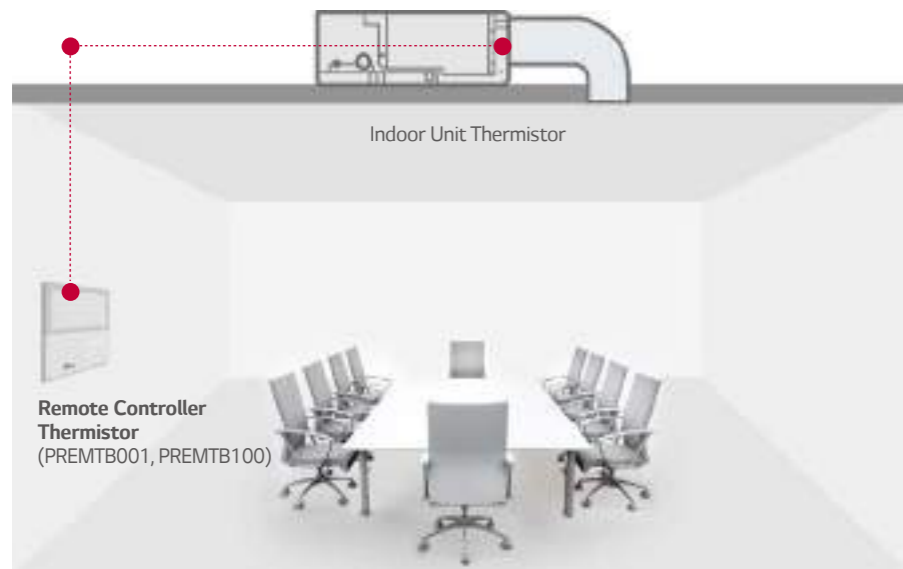
Available for Natural Drainage  
Detachable Drain Pump



# CEILING CONCEALED DUCT

## Two Thermistors Control

The indoor temperature can be checked using the thermistors in the remote controller as well as from the indoor unit. There may be a significant difference between ceiling and floor air temperature. Two thermistors can optimise indoor air temperature for a more comfortable environment.



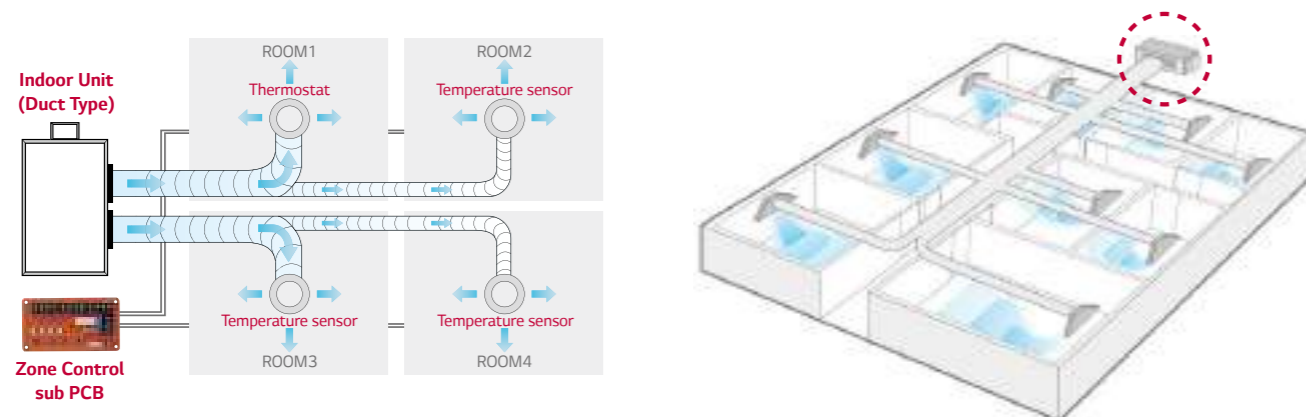
Compares temperatures sensed from different positions, and automatically selects the optimum temperature for users

## Operation for Multiple Rooms

Using a spiral duct (Embedded or flexible type) and stream chamber, it is possible to operate cooling / heating for several rooms simultaneously. Also, zone control is available with zone controller accessory (ABZCA)

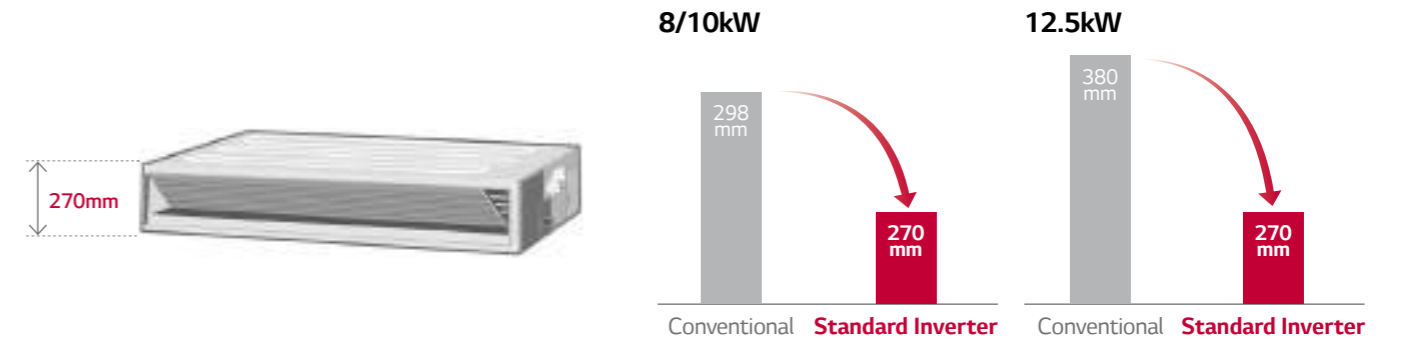
### Zone control features

- Controls different zones (up to 4 zones) by external thermostat (AC a24V)
- Maintain proper air volume of each zone
- Auto variation of dampers
- Auto control of fan speed and On / Off operation

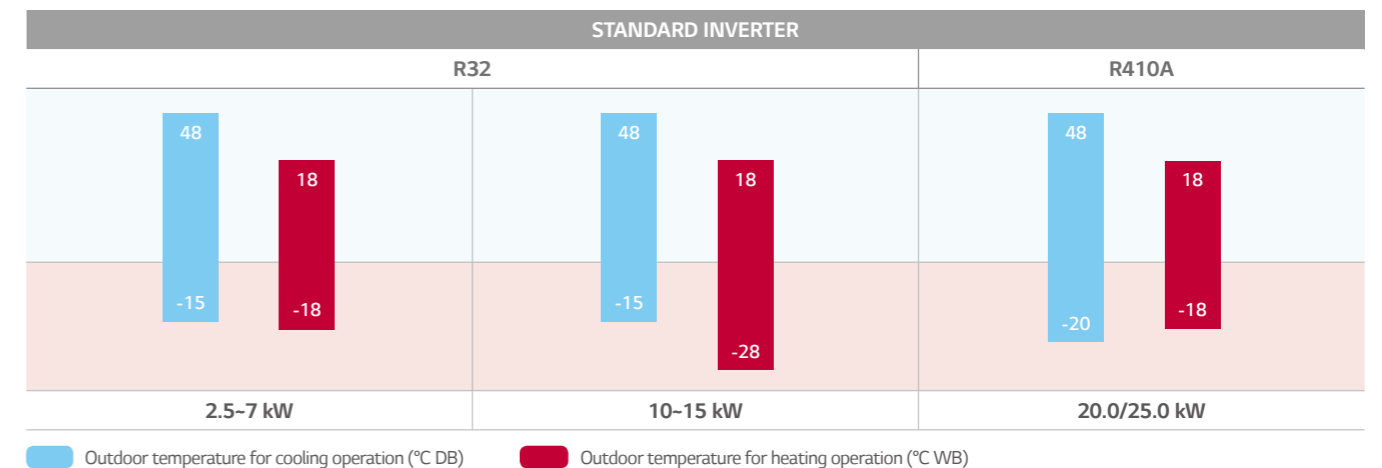


## Minimized Height

New mid-static ducts provide ideal solution for installation in limited space.

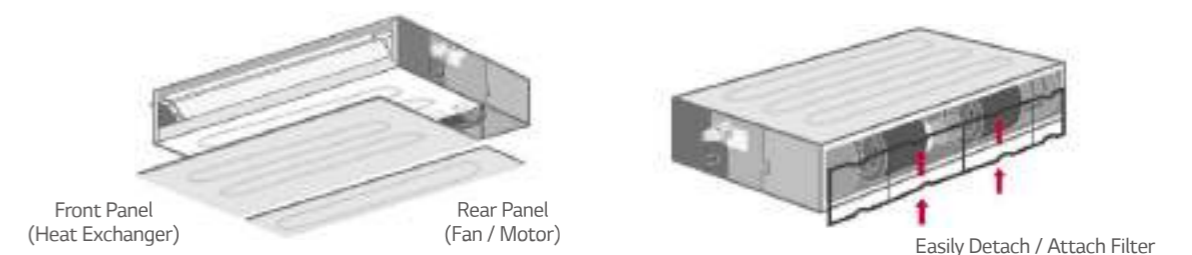


## Wide Operation Range



## Easy Service & Maintenance

Users are not required to disassemble the whole panel for maintenance; since panel is divided into 2 components; one for heat exchanger and the other for fan/motor. The user can easily detach and re-attach the filter in the available limited space.

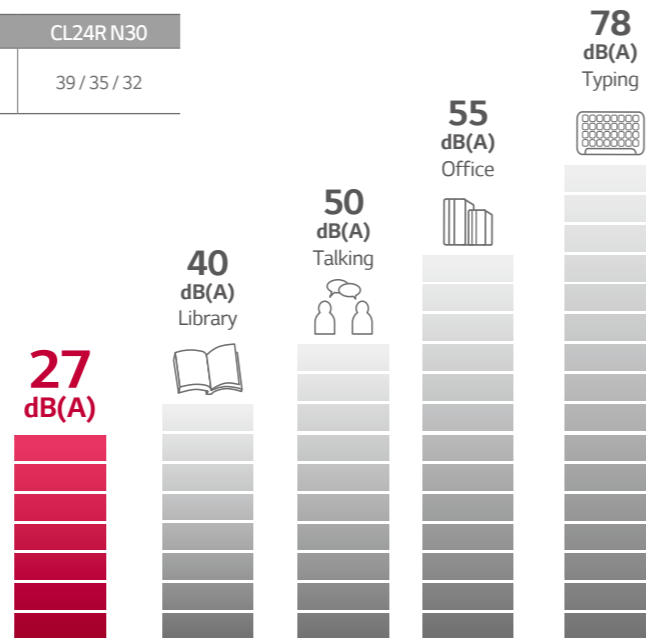


# CEILING CONCEALED DUCT (LOW STATIC PRESSURE)

## Quiet Operation

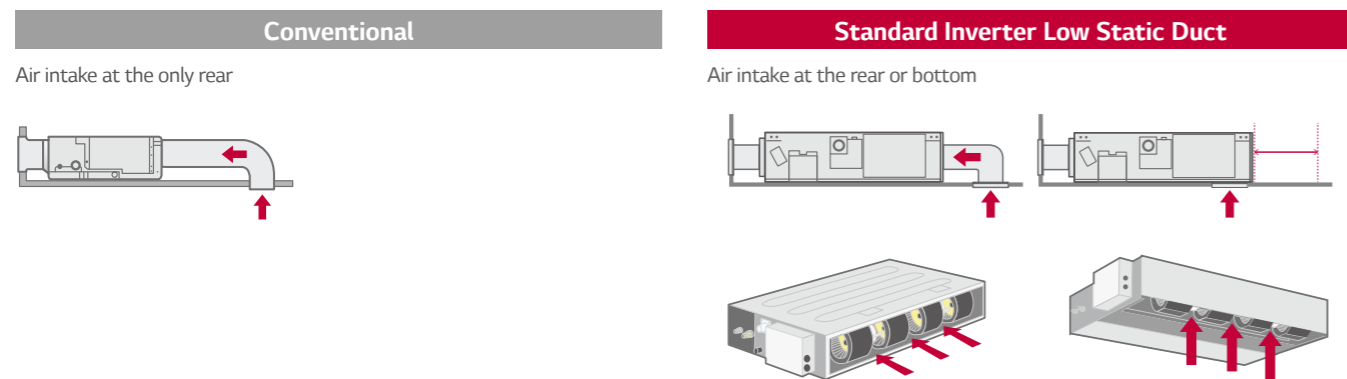
The noise level of low static ducts have been reduced, even though ESP has been increased.

	CL09R N20	CL12R N20	CL18R N20	CL24R N30
Sound Pressure (High / Medium / Low)	31 / 28 / 27	31 / 28 / 27	36 / 34 / 31	39 / 35 / 32



## Flexible Installation

Standard Inverter low static duct allows the air intake at the rear or bottom under installation condition.



# CEILING CONCEALED DUCT



## STANDARD INVERTER (R32)

HIGH STATIC PRESSURE  
- CM18R / CM24R



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UU18WR

UU24WR



INDOOR				CM18R N10	CM24R N10
Capacity	Cooling	Min / Nom / Max	kW	1.8 / 5.0 / 6.0	2.8 / 6.8 / 7.8
	Heating	Min / Nom / Max	kW	2.2 / 6.0 / 7.2	3.2 / 7.5 / 8.3
Low Temperature Capacity	Heating -7°C	Max	kW	5.4	7.2
	Cooling	Nom	kW	1.46	2.03
Power Input (Set)	Heating	Nom	kW	1.60	2.20
		Min / Max (ESP 2.5mmAq)	W	50 / 80	50 / 90
Power Input (Indoor)		Min / Max (ESP 8.0mmAq)	W	90 / 160	100 / 180
	Running Current	Cooling / Heating	Nom	6.5 / 7.1	9.0 / 9.8
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.42	3.35
COP				3.74	3.40
SEER				6.30	6.81
SCOP				4.15	4.01
Pdesign (@-10°C)			kW	4.1	5.4
Seasonal Energy Label	Cooling / Heating (A++ to E Scale)			A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	278 / 1,383	350 / 1,890
	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
Piping Connection	Gas		mm (inch)	Ø 2.7 (1/2)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	32.0 / 25.0	32.0 / 25.0
Air Flow Rate		High / Medium / Low	m <sup>3</sup> /min	16.5 / 14.5 / 13.0	18.0 / 16.5 / 14.5
Sound Pressure	Cooling	High / Medium / Low	dB(A)	34 / 32 / 30	35 / 34 / 32
Sound Power	Cooling	Max	dB(A)	59	60
Dehumidification Rate			l/h	1.5	2.5
Dimensions	Body	W x H x D	mm	900 x 270 x 700	900 x 270 x 700
Net Weight	Body		kg	26.5	26.5
External Static Pressure		Min - Max	mmAq (Pa)	2.5-15 (25-147)	2.5-15 (25-147)

OUTDOOR				UU18WR U20	UU24WR U40
Compressor	Type			Twin Rotary	Twin Rotary
AirFlow Rate		Nom	m <sup>3</sup> /min	50	58
	Cooling	Nom	dB(A)	47	48
Sound Pressure	Heating	Nom	dB(A)	52	52
	Cooling	Max	dB(A)	63	67
Sound Power	Cooling	Max	dB(A)	63	67
Dimensions	W x H x D		mm	870 x 650 x 330	950 x 834 x 330
Net Weight			kg	44.8	56.1
Refrigerant	Type			R32	R32
	Charge		g	1,100	1,600
	Additional Charge (after 7.5m)		g/m	20	35
	GWP			675	675
	t-CO <sub>2</sub> eq			0.74	1.08
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-15 - 48	-15 - 48
	Heating	Min - Max	°C WB	-18 - 18	-18 - 18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm <sup>2</sup>	3C x 2.5	3C x 2.5
Transmission Cable			No. x mm <sup>2</sup>	4C x 0.75	4C x 0.75
Circuit Breaker			A	20	25
Piping Length Total		Min - Max	m	5 - 30	5 - 50
Piping Elevation Difference	IDU - ODU	Max	m	30	30
	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
Piping Connection	Gas		mm (inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)

Note: 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
 3. Capacities are based on the following conditions:  
 Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
 4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
 5. This product contains fluorinated greenhouse gases (R32)

# CEILING CONCEALED DUCT



## STANDARD INVERTER (R32)

**HIGH STATIC PRESSURE**  
- UM36R / UM42R / UM48R / UM60R



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UU36WR UU42WR  
UU48WR UU60WR



INDOOR				UM36R.N20	UM42R.N20	UM48R.N30	UM60R.N30	
Capacity	Cooling	Min / Nom / Max	kW	4.5 / 9.5 / 13.0	5.1 / 12.0 / 14.5	5.5 / 13.4 / 16.0	5.9 / 15.0 / 16.3	
	Heating	Min / Nom / Max	kW	5.0 / 10.8 / 13.7	5.5 / 13.5 / 16.5	6.1 / 15.5 / 18.0	6.8 / 16.8 / 18.7	
Low Temperature Capacity	Heating -7°C	Max	kW	10.0	12.5	14.8	15.2	
Power Input (Set)	Cooling	Nom	kW	2.43	3.45	4.00	4.75	
	Heating	Nom	kW	2.85	3.65	4.40	4.80	
Power Input (Indoor)			W	120 / 210	140 / 260	100 / 220	270 / 290	
			W	200 / 360	230 / 380	220 / 340	300 / 430	
Running Current	Cooling / Heating	Nom	A	10.6 / 12.4	15.0 / 15.9	17.4 / 19.1	20.7 / 20.9	
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
EER				3.91	3.48	3.35	3.16	
COP				3.79	3.70	3.52	3.50	
SEER				5.62	5.50	5.51	5.45	
SCOP				4.04	4.00	3.96	3.92	
Pdesign (@-10°C)			kW	8.05	8.05	9.3	9.3	
Seasonal Energy Label	Cooling / Heating			A+ / A+ (A++ to E Scale)	A / A+	-	-	
Annual Energy Consumption	Cooling / Heating			kWh	594 / 2,800	764 / 2,800	1,459 / 3,288	1,651 / 3,321
	Liquid			mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Piping Connection	Gas			mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25	32 / 25	32 / 25	
Air Flow Rate			m <sup>3</sup> /min	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0	
Sound Pressure	Cooling	High / Medium / Low	dBA	36 / 34 / 33	38 / 36 / 34	40 / 38 / 36	42 / 40 / 38	
Sound Power	Cooling	Max	dBA	60	62	65	66	
Dehumidification Rate			l/h	2.6	3.6	4.5	5.0	
Dimensions	Body	W x H x D	mm	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 360 x 700	1,250 x 360 x 700	
Net Weight	Body			kg	38.5	38.5	43.5	43.5
External Static Pressure			mmAq (Pa)	4-15 (39-147)	5-15 (49-147)	5-15 (49-147)	5-15 (49-147)	

OUTDOOR				UU36WR.U30	UU42WR.U30	UU48WR.U30	UU60WR.U30	
Compressor			Type	R-Scroll	R-Scroll	R-Scroll	R-Scroll	
Airflow Rate			Nom	m <sup>3</sup> /min	110	110	110	
Sound Pressure	Cooling	Nom	dBA	52	52	52	52	
	Heating	Nom	dBA	54	54	54	54	
Sound Power	Cooling	Max	dBA	66	67	68	68	
Dimensions			W x H x D	mm	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330	
Net Weight			kg	87.5	87.5	87.5	87.5	
Refrigerant			Type	R32	R32	R32	R32	
			Charge	g	3,000	3,000	3,000	
			Additional Charge (after 7.5m)	g/m	40	40	40	
			GWP		675	675	675	
			t-CO <sub>2</sub> eq		2.03	2.03	2.03	
Operation Range (Outdoor)	Cooling	Min ~ Max	°C DB	-15 ~ -48	-15 ~ -48	-15 ~ -48	-15 ~ -48	
	Heating	Min ~ Max	°C WB	-25 ~ -18	-25 ~ -18	-25 ~ -18	-25 ~ -18	
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
Power Supply Cable			No. x mm <sup>2</sup>	3C x 6.0	3C x 6.0	3C x 6.0	3C x 6.0	
Transmission Cable			No. x mm <sup>2</sup>	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75	
Circuit Breaker			A	40	40	40	40	
Piping Length Total			Min ~ Max	m	5-85	5-85	5-85	
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30	30	
Piping Connection	Liquid			mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas			mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
3. Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
5. This product contains fluorinated greenhouse gases (R32)

## STANDARD INVERTER (R32)

**HIGH STATIC PRESSURE**  
- UM36R / UM42R / UM48R / UM60R



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UU36WR UU42WR  
UU49WR UU61WR



INDOOR				UM36R.N20	UM42R.N20	UM48R.N30	UM60R.N30	
Capacity	Cooling	Min / Nom / Max	kW	4.5 / 9.5 / 13.0	5.1 / 12.0 / 14.5	5.5 / 13.4 / 16.0	5.9 / 15.0 / 16.3	
	Heating	Min / Nom / Max	kW	5.0 / 10.8 / 13.7	5.5 / 13.5 / 16.5	6.1 / 15.5 / 18.0	6.8 / 16.8 / 18.7	
Low Temperature Capacity	Heating -7°C	Max	kW	10.0	12.5	14.8	15.2	
Power Input (Set)	Cooling	Nom	kW	2.43	3.45	4.00	4.75	
	Heating	Nom	kW	2.85	3.65	4.40	4.80	
Power Input (Indoor)			W	120 / 210	140 / 260	100 / 220	270 / 290	
			W	200 / 360	230 / 380	220 / 340	300 / 430	
Running Current	Cooling / Heating	Nom	A	3.5 / 4.1	5.0 / 5.3	5.8 / 6.4	6.9 / 6.9	
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
EER				3.91	3.48	3.35	3.16	
COP				3.79	3.70	3.52	3.50	
SEER				5.60	5.50	5.51	5.45	
SCOP				4.00	4.00	3.96	3.92	
Pdesign (@-10°C)			kW	8.05	8.05	9.3	9.3	
Seasonal Energy Label	Cooling / Heating			A+ / A+ (A++ to E Scale)	A / A+	-	-	
Annual Energy Consumption	Cooling / Heating			kWh	594 / 2,800	764 / 2,800	1,459 / 3,288	1,651 / 3,321
	Liquid			mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Piping Connection	Gas			mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25	32 / 25	32 / 25	
Air Flow Rate			m <sup>3</sup> /min	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0	
Sound Pressure	Cooling	High / Medium / Low	dBA	36 / 34 / 33	38 / 36 / 34	40 / 38 / 36	42 / 40 / 38	
Sound Power	Cooling	Max	dBA	60	62	65	66	
Dehumidification Rate			l/h	2.6	3.6	4.5	5.0	
Dimensions	Body	W x H x D	mm	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 360 x 700	1,250 x 360 x 700	
Net Weight	Body			kg	38.5	38.5	43.5	43.5
External Static Pressure			mmAq (Pa)	4-15 (39-147)	5-15 (49-147)	5-15 (49-147)	5-15 (49-147)	

OUTDOOR				UU37WR.U30	UU43WR.U30	UU49WR.U30	UU61WR.U30	
Compressor			Type	R-Scroll	R-Scroll	R-Scroll	R-Scroll	
Airflow Rate			Nom	m <sup>3</sup> /min	110	110	110	
Sound Pressure	Cooling	Nom	dBA	52	52	52	52	
	Heating	Nom	dBA	54	54	54	54	
Sound Power	Cooling	Max	dBA	66	67	68	68	
Dimensions			W x H x D	mm	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330	
Net Weight			kg	87.5	87.5	87.5	87.5	
Refrigerant			Type	R32	R32	R32	R32	
			Charge	g	3,000	3,000	3,000	
			Additional Charge (after 7.5m)	g/m	40	40	40	
			GWP		675	675	675	
			t-CO <sub>2</sub> eq		2.03	2.03	2.03	
Operation Range (Outdoor)	Cooling	Min ~ Max	°C DB	-15 ~ -48	-15 ~ -48	-15 ~ -48	-15 ~ -48	
	Heating	Min ~ Max	°C WB	-25 ~ -18	-25 ~ -18	-25 ~ -18	-25 ~ -18	
Power Supply			Ø / V / Hz	3 / 380-415 / 50	3 / 380-415 / 50	3 / 380-415 / 50	3 / 380-415 / 50	
Power Supply Cable			No. x mm <sup>2</sup>	5C x 2.5	3C x 6.0	5C x 2.5	5C x 2.5	
Transmission Cable			No. x mm <sup>2</sup>	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75	
Circuit Breaker			A	20	40	20	20	
Piping Length Total			Min ~ Max	m	5-85	5-85	5-85	
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30	30	
Piping Connection	Liquid			mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas			mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
3. Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
5. This product contains fluorinated greenhouse gases (R32)

# CEILING CONCEALED DUCT



## STANDARD INVERTER (R32)

LOW STATIC PRESSURE  
- CL09R / CL12R / CL18R / CL24R



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UU09WR  
UU12WR



UU18WR



UU24WR



## COMPACT INVERTER (R32)

HIGH STATIC PRESSURE  
- CM18R / CM24R / CM30R



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UU18WCR



UU24WCR  
UU30WCR



INDOOR				CL09R N20	CL12R N20	CL18R N20	CL24R N30
Capacity	Cooling	Min / Nom / Max	kW	1.1 / 2.5 / 3.2	1.4 / 3.4 / 3.9	2.0 / 5.0 / 6.0	4.0 / 7.1 / 7.7
	Heating	Min / Nom / Max	kW	1.2 / 3.2 / 3.6	1.6 / 4.0 / 4.7	2.2 / 6.0 / 7.2	2.0 / 7.5 / 8.2
Low Temperature Capacity	Heating -7°C	Max	kW	3.5	4.4	6.7	8.2
Power Input (Set)	Cooling	Nom	kW	0.64	0.99	1.52	2.15
	Heating	Nom	kW	0.74	1.00	1.76	2.06
Power Input (Indoor)			W	80 / 95	80 / 95	95 / 120	90 / 150
			W	80 / 100	80 / 100	100 / 140	110 / 160
Running Current	Cooling / Heating	Nom	A	2.8 / 3.2	4.2 / 4.6	6.8 / 7.8	9.5 / 9.1
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.90	3.42	3.30	3.30
COP				4.30	4.00	3.41	3.65
SEER				6.28	6.28	6.30	6.60
SCOP				4.00	4.00	3.95	4.20
Pdesign (@-10°C)			kW	3.0	3.0	4.1	5.4
Seasonal Energy Label	Cooling / Heating (A++ to E Scale)			A++ / A+	A++ / A+	A++ / A	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	139 / 1,050	189 / 1,050	278 / 1,453	377 / 1,798
	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
Piping Connection	Gas		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 12.7 (1/2)	Ø 15.88 (5/8)
	Drain		O.D. / I.D.	mm	32.0 / 25.0	32.0 / 25.0	32.0 / 25.0
Air Flow Rate	High / Medium / Low		m <sup>3</sup> /min	10.0 / 8.5 / 7.0	10.0 / 8.5 / 7.0	15.0 / 12.5 / 10.0	20.0 / 16.0 / 12.0
Sound Pressure	Cooling	High / Medium / Low	dBA	31 / 28 / 27	31 / 28 / 27	36 / 34 / 31	39 / 35 / 32
Sound Power	Cooling	Max	dBA	55	55	54	58
Dehumidification Rate			l/h	0.5	1.1	1.6	2.6
Dimensions	Body	W x H x D	mm	900 x 190 x 700	900 x 190 x 700	900 x 190 x 700	1,100 x 190 x 700
Net Weight	Body		kg	24.0	24.0	24.0	27.0
External Static Pressure	Min - Max		mmAq (Pa)	0-5 (0-49)	0-5 (0-49)	0-5 (0-49)	0-5 (0-49)

OUTDOOR				UU09WR ULO	UU12WR ULO	UU18WR U20	UU24WR U40
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate	Nom		m <sup>3</sup> /min	32	32	50	58
Sound Pressure	Cooling	Nom	dBA	47	49	47	48
	Heating	Nom	dBA	50	52	52	52
Sound Power	Cooling	Max	dBA	65	65	63	67
Dimensions	W x H x D		mm	770 x 545 x 288	770 x 545 x 288	870 x 650 x 330	950 x 834 x 330
Net Weight			kg	33.8	33.8	44.8	56.1
Refrigerant	Type			R32	R32	R32	R32
	Charge		g	900	900	1,100	1,600
	Additional Charge (after 7.5m)		g/m	20	20	20	35
	GWP			675	675	675	675
	t-CO <sub>2</sub> eq			0.61	0.61	0.74	1.08
Operation Range (Outdoor)	Cooling	Min ~ Max	°C DB	-15 ~ -48	-15 ~ -48	-15 ~ -48	-15 ~ -48
	Heating	Min ~ Max	°C WB	-18 ~ -18	-18 ~ -18	-18 ~ -18	-18 ~ -18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm <sup>2</sup>	3C x 2.5	3C x 2.5	3C x 2.5	3C x 2.5
Transmission Cable			No. x mm <sup>2</sup>	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	15	15	20	25
Piping Length Total	Min ~ Max		m	5-20	5-20	5-30	5-50
Piping Elevation Difference	IDU - ODU	Max	m	10	10	30	30
Piping Connection	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 12.7 (1/2)	Ø 15.88 (5/8)

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
3. Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
5. This product contains fluorinated greenhouse gases (R32)

INDOOR				CM18R N10	CM24R N10	CM30R N10
Capacity	Cooling	Min / Nom / Max	kW	1.8 / 5.0 / 5.3	2.7 / 6.8 / 7.4	3.0 / 7.5 / 8.2
	Heating	Min / Nom / Max	kW	1.7 / 5.2 / 6.0	1.9 / 7.5 / 8.2	2.0 / 8.0 / 8.4
Low Temperature Capacity	Heating -7°C	Max	kW	3.9	5.7	7.0
Power Input (Set)	Cooling	Nom	kW	1.67	2.27	2.34
	Heating	Nom	kW	1.58	2.40	2.28
Power Input (Indoor)			W	50 / 80	50 / 90	90 / 150
			W	90 / 160	100 / 180	160 / 240
Running Current	Cooling / Heating	Nom	A	7.4 / 7.0	10.2 / 10.6	10.6 / 10.0
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				2.99	3.00	3.21
COP				3.29	3.13	3.51
SEER				5.60	5.60	5.88
SCOP				3.80	3.80	3.90
Pdesign (@-10°C)			kW	2.9	4.0	4.0
Seasonal Energy Label	Cooling / Heating (A++ to E Scale)			A+ / A	A+ / A	A+ / A
Annual Energy Consumption	Cooling / Heating		kWh	313 / 1,066	425 / 1,474	446 / 1,436
	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Piping Connection	Gas		mm (inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain		O.D. / I.D.	mm	32.0 / 25.0	32.0 / 25.0
Air Flow Rate	High / Medium / Low		m <sup>3</sup> /min	16.5 / 14.5 / 13.0	18.0 / 16.5 / 14.5	22.0 / 20.0 / 18.0
Sound Pressure	Cooling	High / Medium / Low	dBA	34 / 32 / 30	35 / 34 / 32	37 / 35 / 34
Sound Power	Cooling	Max	dBA	59	60	62
Dehumidification Rate			l/h	1.2	2.5	2.8
Dimensions	Body	W x H x D	mm	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700
Net Weight	Body		kg	26.5	26.5	27.0
External Static Pressure	Min - Max		mmAq (Pa)	2.5-15 (25-147)	2.5-15 (25-147)	2.5-15 (25-147)

OUTDOOR				UU18WCR ULO	UU24WCR U20	UU30WCR U20
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate	Nom		m <sup>3</sup> /min	32	50	50
Sound Pressure	Cooling	Nom	dBA	49	49	50
	Heating	Nom	dBA	52	53	54
Sound Power	Cooling	Max	dBA	65	65	67
Dimensions	W x H x D		mm	770 x 545 x 288	870 x 650 x 330	870 x 650 x 330
Net Weight			kg	35.9	45.0	45.0
Refrigerant	Type			R32	R32	R32
	Charge		g	1,000	1,300	1,300
	Additional Charge (after 7.5m)		g/m	20	20	20
	GWP			675	675	675
	t-CO <sub>2</sub> eq			0.61	0.74	0.74
Operation Range (Outdoor)	Cooling	Min ~ Max	°C DB	-10 ~ -48	-10 ~ -48	-10 ~ -48
	Heating	Min ~ Max	°C WB	-10 ~ -18	-10 ~ -18	-10 ~ -18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm <sup>2</sup>	3C x 2.5	3C x 2.5	3C x 2.5
Transmission Cable			No. x mm <sup>2</sup>	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	15	20	20
Piping Length Total	Min ~ Max		m	5-30	5-35	5-35
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30
Piping Connection	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)	Ø 15.88 (5/8)

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
3. Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
5. This product contains fluorinated greenhouse gases (R32)



# CEILING CONCEALED DUCT

## STANDARD INVERTER (R410A)

MID / HIGH STATIC PRESSURE  
- CM18 / CM24 / UM30



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UU18W



UU24W  
UU30W



INDOOR				CM18 N14	CM24 N14	UM30 N14
Capacity	Cooling	Min / Nom / Max	kW	1.8 / 5.0 / 6.0	2.8 / 6.8 / 7.5	3.2 / 7.8 / 8.8
	Heating	Min / Nom / Max	kW	2.2 / 6.0 / 7.2	3.2 / 7.5 / 8.3	3.6 / 9.0 / 9.9
Low Temperature Capacity	Heating -7°C	Max	kW	5.4	7.2	8.1
Power Input (Set)	Cooling	Nom	kW	1.46	2.07	2.41
	Heating	Nom	kW	1.66	2.34	2.62
Power Input (Indoor)		Min / Max (Nom ESP)	W	90 / 160	100 / 180	160 / 240
Running Current	Cooling / Heating	Nom	A	6.5 / 7.6	9.1 / 10.3	10.1 / 10.7
Power Supply		Ø / V / Hz		1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.41	3.11	3.51
COP				3.61	3.21	3.70
SEER				6.10	6.10	6.10
SCOP				4.25	3.90	4.00
Pdesign (@ -10°C)			kW	4.1	6.0	6.5
Seasonal Energy Label	Cooling / Heating (A++ to E Scale)			A++ / A+	A++ / A	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	287 / 1,383	390 / 2,154	448 / 2,275
	Liquid		mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connection	Gas		mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25	32 / 25
	Air Flow Rate	High / Medium / Low	m³/min	16.5 / 14.5 / 13.0	18.0 / 16.5 / 14.5	22.0 / 20.0 / 18.0
Sound Pressure	Cooling	High / Medium / Low	dBA	34 / 32 / 30	35 / 34 / 32	37 / 35 / 34
Sound Power	Cooling	Max	dBA	59	60	62
Dehumidification Rate			l/h	2.0	2.5	2.8
Dimensions	Body	W x H x D	mm	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700
Net Weight	Body		kg	23.8	24.2	25.3
External Static Pressure		Min - Max	mmAq (Pa)	2.5-15 (25-147)	2.5-15 (25-147)	2.5-15 (25-147)

OUTDOOR				UU18W UE4	UU24W U44	UU30W U44
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate	Nom		m³/min	50	58	58
Sound Pressure	Cooling	Nom	dBA	47	48	48
	Heating	Nom	dBA	52	52	52
Sound Power	Cooling	Max	dBA	63	67	68
Dimensions	W x H x D		mm	870 x 655 x 320	950 x 834 x 330	950 x 834 x 330
Net Weight			kg	44.6	56.1	58.0
Refrigerant	Type			R410A	R410A	R410A
	Charge		g	1,300	2,000	2,000
	Additional Charge		g/m	20	40	40
	GWP			2087.5	2087.5	2087.5
	TCO2eq			2.7	4.2	4.2
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-15 - 48	-15 - 48	-15 - 48
	Heating	Min - Max	°C WB	-18 - 18	-18 - 18	-18 - 18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm²	3C x 2.5	3C x 2.5	3C x 2.5
Transmission Cable			No. x mm²	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	20	25	25
Piping Length Total		Min - Max	m	5 - 30	5 - 50	5 - 50
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30
Piping Connection	Liquid		mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas		mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø15.88 (5/8)

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2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
3. Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
5. This product contains fluorinated greenhouse gases (R410A)

## STANDARD INVERTER (R410A)

MID / HIGH STATIC PRESSURE  
- UM36 / UM42 / UM48 / UM60



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UU36W



UU42W  
UU48W  
UU60W



INDOOR				UM36 N24	UM42 N24	UM48 N34	UM60 N34
Capacity	Cooling	Min / Nom / Max	kW	4.0 / 10.0 / 11.0	5.0 / 12.1 / 13.2	5.6 / 14.0 / 15.4	5.9 / 14.8 / 16.3
	Heating	Min / Nom / Max	kW	4.5 / 11.2 / 12.3	5.6 / 14.0 / 15.0	6.6 / 15.8 / 18.2	6.8 / 16.8 / 18.7
Low Temperature Capacity	Heating -7°C	Max	kW	10.0	12.5	14.8	15.2
Power Input (Set)	Cooling	Nom	kW	3.12	3.76	4.10	4.53
	Heating	Nom	kW	3.19	3.86	4.39	4.79
Power Input (Indoor)		Min / Max (Nom ESP)	W	200 / 360	230 / 380	220 / 340	300 / 430
Running Current	Cooling / Heating	Nom	A	13.6 / 13.9	16.6 / 17.2	17.3 / 18.5	19.1 / 20.2
Power Supply		Ø / V / Hz		1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.21	3.22	3.41	3.31
COP				3.51	3.63	3.60	3.51
SEER				5.11	5.10	5.20	5.10
SCOP				3.81	3.58	3.65	3.65
Pdesign (@ -10°C)			kW	7.8	11.5	12.0	12.0
Seasonal Energy Label	Cooling / Heating (A++ to E Scale)			A / A (A++ to E Scale)	-	-	-
Annual Energy Consumption	Cooling / Heating		kWh	685 / 2,866	-	-	-
	Liquid		mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connection	Gas		mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25	32 / 25	32 / 25
	Air Flow Rate	High / Medium / Low	m³/min	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0
Sound Pressure	Cooling	High / Medium / Low	dBA	36 / 34 / 33	38 / 36 / 34	40 / 38 / 36	42 / 40 / 38
Sound Power	Cooling	Max	dBA	60	62	65	66
Dehumidification Rate			l/h	3.2	3.6	4.5	5.0
Dimensions	Body	W x H x D	mm	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 360 x 700	1,250 x 360 x 700
Net Weight	Body		kg	35.0	37.0	42.5	42.5
External Static Pressure		Min - Max	mmAq (Pa)	4-15 (39-147)	5-15 (49-147)	5-15 (49-147)	5-15 (49-147)

OUTDOOR				UU36W U02	UU42W U32	UU48W U32	UU60W U32
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate	Nom		m³/min	90	110	110	110
Sound Pressure	Cooling	Nom	dBA	53	52	52	52
	Heating	Nom	dBA	54	54	54	54
Sound Power	Cooling	Max	dBA	66	67	68	71
Dimensions	W x H x D		mm	950 x 1,170 x 330	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330
Net Weight			kg	81.0	92.0	92.0	92.0
Refrigerant	Type			R410A	R410A	R410A	R410A
	Charge		g	2,800	3,400	3,400	3,400
	Additional Charge		g/m	40	40	40	40
	GWP			2087.5	2087.5	2087.5	2087.5
	TCO2eq			5.8	7.1	7.1	7.1
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-15 - 48	-15 - 48	-15 - 48	-15 - 48
	Heating	Min - Max	°C WB	-18 - 18	-18 - 18	-18 - 18	-18 - 18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm²	3C x 5.0	3C x 5.0	3C x 5.0	3C x 5.0
Transmission Cable			No. x mm²	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	40	40	40	40
Piping Length Total		Min - Max	m	5 - 50	5 - 75	5 - 75	5 - 75
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30	30
Piping Connection	Liquid		mm (inch)	Ø9.52 (3/8)	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)	Ø15.88 (5/8)

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2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
3. Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
5. This product contains fluorinated greenhouse gases (R410A)

# CEILING CONCEALED DUCT

## STANDARD INVERTER (R410A)

MID / HIGH STATIC PRESSURE  
- UM36 / UM42 / UM48 / UM60



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UU36W UU42W  
UU48W  
UU60W



INDOOR				UM36 N24	UM42 N24	UM48 N34	UM60 N34
Capacity	Cooling	Min / Nom / Max	kW	4.0 / 10.0 / 11.0	5.0 / 12.5 / 13.8	5.6 / 14.0 / 15.4	5.9 / 14.8 / 16.3
	Heating	Min / Nom / Max	kW	4.5 / 11.2 / 12.3	5.6 / 14.0 / 15.4	6.6 / 16.4 / 18.2	6.8 / 16.8 / 18.7
Low Temperature Capacity	Heating -7°C	Max	kW	10.0	12.5	14.8	15.2
Power Input (Set)	Cooling	Nom	kW	3.12	3.76	4.10	4.53
	Heating	Nom	kW	3.19	3.86	4.39	4.79
Power Input (Indoor)		Min / Max (Nom ESP)	W	200 / 360	230 / 380	220 / 340	300 / 430
Running Current	Cooling / Heating	Nom	A	4.7 / 4.9		6.0 / 6.5	6.6 / 7.1
Power Supply		Ø / V / Hz		1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.21	3.22	3.41	3.31
COP				3.51	3.63	3.60	3.51
SEER				5.11	5.10	5.20	5.10
SCOP				3.81	3.58	3.65	3.65
Pdesign (@ -10°C)			kW	7.8	11.5	12.0	12.0
Seasonal Energy Label	Cooling / Heating			A / A (A++ to E Scale)	-	-	-
Annual Energy Consumption	Cooling / Heating		kWh	685 / 2,866	-	-	-
Piping Connection	Liquid		mm (inch)	Ø9.52 (3/8)	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)	Ø15.88 (5/8)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25	32 / 25	32 / 25
Air Flow Rate		High / Medium / Low	m³/min	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0
Sound Pressure	Cooling	High / Medium / Low	dB(A)	36 / 34 / 33	38 / 36 / 34	40 / 38 / 36	42 / 40 / 38
Sound Power	Cooling	Max	dB(A)	58	62	65	66
Dehumidification Rate			l/h	2.6	3.6	4.5	5.0
Dimensions	Body	W x H x D	mm	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 360 x 700	1,250 x 360 x 700
Net Weight	Body		kg	35.0	37.0	42.5	42.5
External Static Pressure		Min - Max	mmAq (Pa)	4-15 (39-147)	5-15 (49-147)	5-15 (49-147)	5-15 (49-147)

OUTDOOR				UU37W U02	UU43W U32	UU49W U32	UU61W U32
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate	Nom		m³/min	90	110	110	110
Sound Pressure	Cooling	Nom	dB(A)	53	52	52	52
	Heating	Nom	dB(A)	54	54	54	54
Sound Power	Cooling	Max	dB(A)	66	67	68	71
Dimensions	W x H x D		mm	950 x 1,170 x 330	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330
Net Weight			kg	85.0	96.0	96.0	96.0
Refrigerant	Type			R410A	R410A	R410A	R410A
	Charge		g	2,800	3,400	3,400	3,400
	Additional Charge		g/m	40	40	40	40
	GWP			2087.5	2087.5	2087.5	2087.5
	TCO2eq			5.8	7.1	7.1	7.1
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-15 - 48	-15 - 48	-15 - 48	-15 - 48
	Heating	Min - Max	°C WB	-18 - 18	-18 - 18	-18 - 18	-18 - 18
Power Supply			Ø / V / Hz	3 / 380-415 / 50	3 / 380-415 / 50	3 / 380-415 / 50	3 / 380-415 / 50
Power Supply Cable			No. x mm²	5C x 2.5	5C x 2.5	5C x 2.5	5C x 2.5
Transmission Cable			No. x mm²	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	20	20	20	20
Piping Length Total		Min - Max	m	5 - 50	5 - 75	5 - 75	5 - 75
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30	30
Piping Connection	Liquid		mm (inch)	Ø9.52 (3/8)	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)	Ø15.88 (5/8)

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2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
3. Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
5. This product contains fluorinated greenhouse gases (R410A)

## STANDARD INVERTER (R410A)

HIGH STATIC PRESSURE  
- UB70 / UB85



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UU70W UU85W



INDOOR				UB70 N94	UB85 N94
Capacity	Cooling	Min / Nom / Max	kW	7.6 / 19.0 / 20.9	9.2 / 23.0 / 25.3
	Heating	Min / Nom / Max	kW	9.0 / 22.4 / 24.6	10.8 / 27.0 / 29.7
Low Temperature Capacity	Heating -7°C	Max	kW	18.0	24.0
Power Input (Set)	Cooling	Nom	kW	6.69	8.19
	Heating	Nom	kW	6.4	8.31
Power Input (Indoor)		Min / Max (Nom ESP)	W	550 / 760	610 / 920
Running Current	Cooling / Heating	Nom	A	11.5 / 10.7	13.5 / 13.6
Power Supply		Ø / V / Hz		1 / 220-240 / 50	1 / 220-240 / 50
EER				2.84	2.81
COP				3.50	3.25
SEER				4.60	4.80
SCOP				3.53	3.51
Pdesign (@ -10°C)			kW	13.4	18.5
Seasonal Energy Label	Cooling / Heating			-	-
Annual Energy Consumption	Cooling / Heating		kWh	-	-
Piping Connection	Liquid		mm (inch)	Ø9.52 (3/8)	Ø12.7 (1/2)
	Gas		mm (inch)	Ø25.4 (1/1)	Ø22.2 (7/8)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25
Air Flow Rate		High / Medium / Low	m³/min	70.0 / 65.0 / 60.0	80.0 / 72.0 / 64.0
Sound Pressure	Cooling	High / Medium / Low	dB(A)	43 / 41 / 40	43 / 41 / 40
Sound Power	Cooling	Max	dB(A)	61	61
Dehumidification Rate			l/h	1.81 (4.2)	5.14 (11.9)
Dimensions	Body	W x H x D	mm	1,563 x 458 x 791	1,563 x 458 x 791
Net Weight	Body		kg	90.0	90.0
External Static Pressure		Min - Max	mmAq (Pa)	6 - 25 (60-250)	6 - 25 (60-250)

OUTDOOR				UU70W U34	UU85W U74
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
Airflow Rate	Nom		m³/min	110	190
Sound Pressure	Cooling	Nom	dB(A)	55	59
	Heating	Nom	dB(A)	58	60
Sound Power	Cooling	Max	dB(A)	73	74
Dimensions	W x H x D		mm	950 x 1,380 x 330	1,090 x 1,625 x 380
Net Weight			kg	110	144.0
Refrigerant	Type			R410A	R410A
	Charge		g	5,200	5,500
	Additional Charge		g/m	70	70
	GWP			2087.5	2087.5
	TCO2eq			10.9	11.5
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-20 - 48	-20 - 48
	Heating	Min - Max	°C WB	-18 - 18	-18 - 18
Power Supply			Ø / V / Hz	3 / 380-415 / 50	3 / 380-415 / 50
Power Supply Cable			No. x mm²	3C x 2.5	5C x 2.5
Transmission Cable			No. x mm²	4C x 1.0	4C x 1.0
Circuit Breaker			A	30	30
Piping Length Total		Min - Max	m	75	75
Piping Elevation Difference	IDU - ODU	Max	m	30	30
Piping Connection	Liquid		mm (inch)	Ø9.53 (3/8)	Ø12.7 (1/2)
	Gas		mm (inch)	Ø25.4 (1/1)	Ø22.2 (7/8)

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3. Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
5. This product contains fluorinated greenhouse gases (R410A)

# CEILING CONCEALED DUCT

## STANDARD INVERTER (R410A)

LOW STATIC PRESSURE  
- CB09L / CB12L



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UU09W  
UU12W



INDOOR				CB09L N12	CB12L N22
Capacity	Cooling	Min / Nom / Max	kW	1.1 / 2.5 / 3.2	1.4 / 3.4 / 3.7
	Heating	Min / Nom / Max	kW	1.2 / 3.2 / 3.6	1.6 / 4.0 / 4.5
Low Temperature Capacity	Heating -7°C	Max	kW	3.5	4.4
		Nom	kW	0.72	1.00
Power Input (Set)	Cooling	Nom	kW	0.91	1.05
	Heating	Nom	kW	0.91	1.05
Power Input (Indoor)		Min / Max (Nom ESP)	W	40 / 60	80 / 100
Running Current	Cooling / Heating	Nom	A	3.1 / 4.0	4.3 / 4.6
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.48	3.41
COP				3.51	3.81
SEER				5.11	5.61
SCOP				3.81	3.81
Pdesign (@ -10°C)			kW	2.8	3.0
Seasonal Energy Label	Cooling / Heating (A++ to E Scale)			A / A	A+ / A
Annual Energy Consumption	Cooling / Heating		kWh	172 / 1,032	213 / 1,105
	Liquid		mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
Piping Connection	Gas		mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25
	Air Flow Rate	High / Medium / Low	m³/min	9.0 / 7.0 / 5.5	10.0 / 8.5 / 7.0
Sound Pressure	Cooling	High / Medium / Low	dBA	30 / 26 / 23	31 / 28 / 27
Sound Power	Cooling	Max	dBA	49	52
Dehumidification Rate			l/h	1.1	1.2
Dimensions	Body	W x H x D	mm	700 x 190 x 700	900 x 190 x 700
Net Weight	Body		kg	17.5	23.0
External Static Pressure		Min - Max	mmAq (Pa)	0-5 (0-49)	0-5 (0-49)

OUTDOOR				UU09W ULD	UU12W ULD
Compressor	Type			Rotary	Rotary
Airflow Rate	Nom		m³/min	32	32
Sound Pressure	Cooling	Nom	dBA	47	47
	Heating	Nom	dBA	48	48
Sound Power	Cooling	Max	dBA	56	57
Dimensions	W x H x D		mm	770 x 540 x 245	770 x 540 x 245
Net Weight			kg	32.0	32.0
Refrigerant	Type			R410A	R410A
	Charge		g	1,000	1,000
	Additional Charge		g/m	20	20
	GWP			2,087.5	2,087.5
	TCO2eq			2.1	2.1
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-10 - 43	-10 - 43
	Heating	Min - Max	°C WB	-18 - 18	-18 - 18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No.xmm²	3C x 2.5	3C x 2.5
Transmission Cable			No.xmm²	4C x 0.75	4C x 0.75
Circuit Breaker			A	15	15
Piping Length Total		Min - Max	m	5-15	5-15
Piping Elevation Difference	IDU - ODU	Max	m	10	10
Piping Connection	Liquid		mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas		mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
3. Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
5. This product contains fluorinated greenhouse gases (R410A)

## STANDARD INVERTER (R410A)

LOW STATIC PRESSURE  
- CB18L / CB24L



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UU18W UU24W



INDOOR				CB18L N22	CB24L N32
Capacity	Cooling	Min / Nom / Max	kW	2.0 / 5.0 / 6.0	4.0 / 7.1 / 7.7
	Heating	Min / Nom / Max	kW	2.2 / 6.0 / 7.2	2.0 / 7.5 / 8.3
Low Temperature Capacity	Heating -7°C	Max	kW	6.7	8.2
		Nom	kW	1.55	2.36
Power Input (Set)	Cooling	Nom	kW	1.50	2.05
	Heating	Nom	kW	1.50	2.05
Power Input (Indoor)		Min / Max (Nom ESP)	W	100 / 140	110 / 160
Running Current	Cooling / Heating	Nom	A	6.8 / 8.4	10.4 / 9.0
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.11	3.01
COP				3.41	3.61
SEER				6.10	5.60
SCOP				3.95	3.90
Pdesign (@ -10°C)			kW	4.0	5.8
Seasonal Energy Label	Cooling / Heating (A++ to E Scale)			A++ / A	A+ / A
Annual Energy Consumption	Cooling / Heating		kWh	287 / 1,418	444 / 2,082
	Liquid		mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)
Piping Connection	Gas		mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25
	Air Flow Rate	High / Medium / Low	m³/min	15.0 / 12.5 / 10.0	20.0 / 16.0 / 12.0
Sound Pressure	Cooling	High / Medium / Low	dBA	36 / 34 / 31	39 / 35 / 32
Sound Power	Cooling	Max	dBA	54	58
Dehumidification Rate			l/h	1.7	2.2
Dimensions	Body	W x H x D	mm	900 x 190 x 700	1,100 x 190 x 700
Net Weight	Body		kg	23.0	27.0
External Static Pressure		Min - Max	mmAq (Pa)	0-5 (0-49)	0-5 (0-49)

OUTDOOR				UU18W UE4	UU24W U44
Compressor	Type			Twin Rotary	Twin Rotary
Airflow Rate	Nom		m³/min	50	58
Sound Pressure	Cooling	Nom	dBA	47	48
	Heating	Nom	dBA	52	52
Sound Power	Cooling	Max	dBA	63	67
Dimensions	W x H x D		mm	870 x 655 x 320	950 x 834 x 330
Net Weight			kg	44.8	56.1
Refrigerant	Type			R410A	R410A
	Charge		g	1,300	2,000
	Additional Charge		g/m	20	40
	GWP			2,087.5	2,087.5
	TCO2eq			2.7	4.2
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-15 - 48	-15 - 48
	Heating	Min - Max	°C WB	-18 - 18	-18 - 18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No.xmm²	3C x 2.5	3C x 2.5
Transmission Cable			No.xmm²	4C x 0.75	4C x 0.75
Circuit Breaker			A	20	25
Piping Length Total		Min - Max	m	5 - 30	5 - 50
Piping Elevation Difference	IDU - ODU	Max	m	30	30
Piping Connection	Liquid		mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas		mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
3. Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
5. This product contains fluorinated greenhouse gases (R410A)

SINGLE SPLIT SPECIFICATION

# CEILING CONCEALED DUCT

## COMPACT INVERTER (R410A)

HIGH STATIC PRESSURE  
- UB18C / UB24C / UM30 / UM36



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PQRCVCL0QW offered with UB18C / UB24C  
PREMTB001 offered with UM30 / UM36

UU18WC      UU24WC      UU36WC  
                 UU30WC



INDOOR				UB18C NHO	UB24C NHO	UM30 N14	UM36 N24
Capacity	Cooling	Min / Nom / Max	kW	1.8 / 4.7 / 5.1	2.7 / 6.8 / 7.4	3.2 / 7.5 / 7.8	3.8 / 9.5 / 10.0
	Heating	Min / Nom / Max	kW	1.7 / 5.2 / 5.7	1.9 / 7.5 / 8.2	3.6 / 8.0 / 8.8	4.0 / 10.0 / 10.5
Low Temperature Capacity	Heating -7°C	Max	kW	3.9	5.7	7.0	8.7
				Power Input (Set)	Cooling	Nom	kW
Power Input (Set)	Heating	Nom	kW	1.67	2.40	2.25	2.93
				Power Input (Indoor)	Min / Max (Nom ESP)	W	80 / 100
Running Current	Cooling / Heating	Nom	A	7.3 / 7.4	9.4 / 9.6	12.0 / 10.0	14.9 / 13.0
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				2.86	2.92	2.8	2.8
COP				3.11	3.13	3.6	3.4
SEER				5.11	5.38	5.6	5.6
SCOP				3.81	3.81	3.9	3.8
Pdesign (@ -10°C)			kW	3.2	5.2	5.8	6.5
Seasonal Energy Label	Cooling / Heating (A++ to E Scale)			A / A	A / A	A+ / A	A+ / A
Annual Energy Consumption	Cooling / Heating		kWh	322 / 1,176	442 / 1,911	469 / 2,082	594 / 2,388
	Liquid		mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connection	Gas		mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25	32 / 25	32 / 25
	Air Flow Rate	High / Medium / Low	m³/min	13.5 / 12.0 / 10.5	18.0 / 16.5 / 14.5	22.0 / 20.0 / 18.0	32.0 / 28.0 / 24.0
Sound Pressure	Cooling	High / Medium / Low	dB(A)	36 / 34 / 32	38 / 36 / 34	37 / 35 / 34	36 / 34 / 33
Sound Power	Cooling	Max	dB(A)	59	63	62	60
Dehumidification Rate			l/h	1.1 (2.5)	2.12 (4.9)	2.8	3.2
Dimensions	Body	W x H x D	mm	882 x 260 x 450	882 x 260 x 450	900 x 270 x 700	1,250 x 270 x 700
Net Weight	Body		kg	25.3	26.1	25.3	36.0
External Static Pressure		Min - Max	mmAq (Pa)	2.5-8 (25-78)	2.5-8 (25-78)	2.5-15(25-147)	4-15(39-147)

OUTDOOR				UU18WC ULO	UU24WC UE0	UU30WC UE0	UU36WC U40
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate	Nom		m³/min	28	50	50	58
Sound Pressure	Cooling	Nom	dB(A)	47	48	51	54
	Heating	Nom	dB(A)	49	50	52	56
Sound Power	Cooling	Max	dB(A)	65	68	70	70
Dimensions	W x H x D		mm	770 x 545 x 288	870 x 655 x 320	870 x 655 x 320	950 x 834 x 330
Net Weight			kg	37.5	44.5	45.4	58.2
Refrigerant	Type			R410A	R410A	R410A	R410A
	Charge		g	1,300	1,400	1,600	2,200
	Additional Charge		g/m	20	40	40	40
	GWP			2087.5	2087.5	2087.5	2087.5
	TCO2eq			2.7	2.9	3.3	4.6
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-10 - 46	-10 - 46	-10 - 48	-10 - 48
	Heating	Min - Max	°C WB	-10 - 18	-15 - 18	-10 - 18	-10 - 18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	0 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm²	3C x 2.5	3C x 2.5	3C x 2.5	3C x 2.5
Transmission Cable			No. x mm²	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	15	20	20	25
Piping Length Total		Min - Max	m	5-30	5-30	5-35	5-40
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30	30
Piping Connection	Liquid		mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas		mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
3. Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
5. This product contains fluorinated greenhouse gases (R410A)

# CEILING & FLOOR CONVERTIBLE CEILING SUSPENDED UNIT

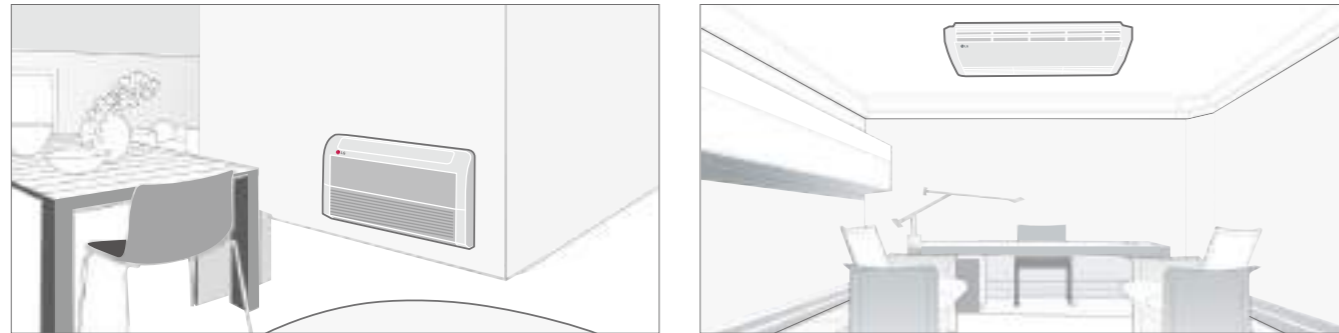




# CEILING & FLOOR CONVERTIBLE

## Flexible Installation

The ceiling and floor models can be installed either on the ceiling or on the floor, thus saving on space while being installed in commercial premises.

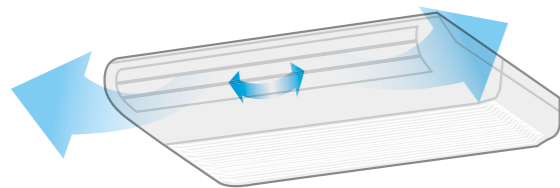


\* Ceiling & Floor : CV09 NE2 / CV12 NE2

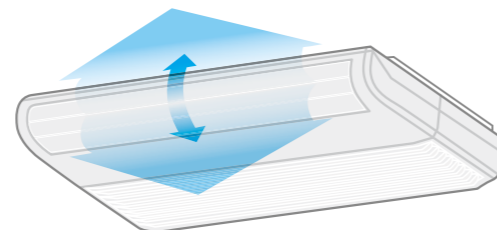
## Airflow Direction Control

Vertical airflow direction can be adjusted using the remote controller, while horizontal airflow direction can be adjusted manually.

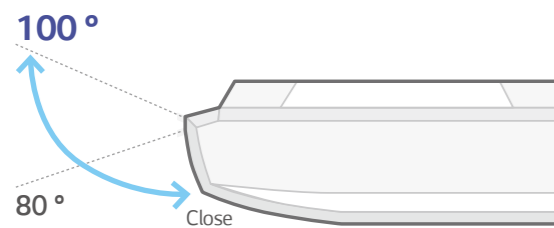
Horizontal



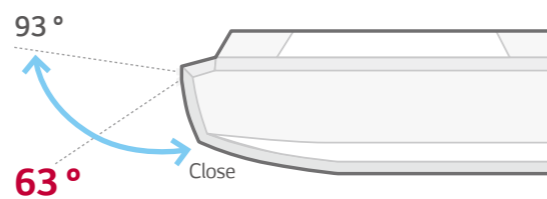
Vertical



Cooling



Heating



# CEILING SUSPENDED UNIT

## Differentiated Design

With its stunning V-shaped design and black vane, LG's new ceiling-suspended air conditioner portrays elegance and sophistication appropriate for any space. This attractive aesthetics of the air conditioner qualified it for the iF Design Award.



## Powerful Cooling & Heating

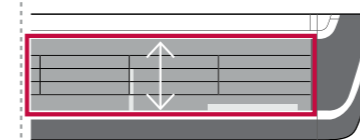
The new LG Ceiling Suspended Unit is remarkably efficient for using in large areas due to its powerful cooling and heating operation. The powerful air speed and high volume features enhance the flow of air to reach up to 15m away from the air conditioner.



With enlarged outlet space, optimized the Air flow Path and improved Heat Exchanger's performance

### Outlet Space

New LG

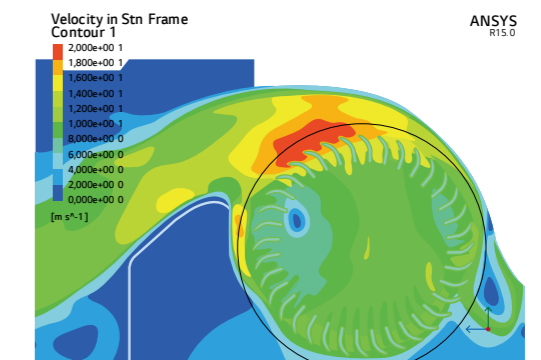


Conventional



115% ENLARGED

### Optimized the Air flow Path

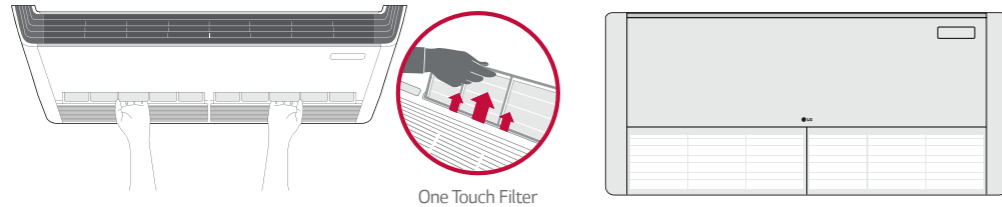


105% IMPROVED

# CEILING SUSPENDED UNIT

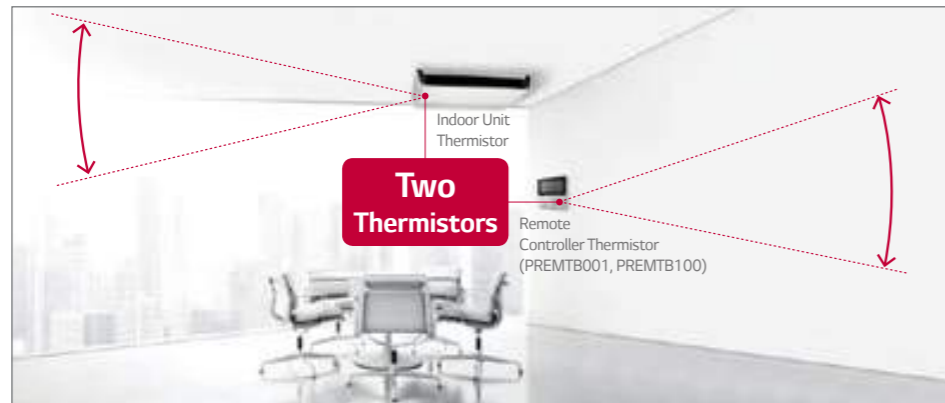
## One Touch & 2 Piece Filter

Easy IN/OUT filter structure in addition to an easy-to-use two-piece filter, which slides out for easy cleaning and maintenance.



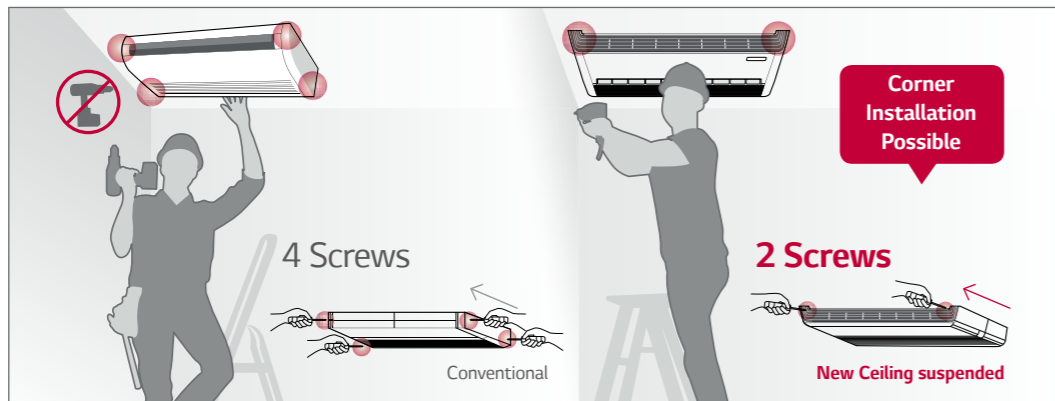
## Two Thermistors Control

Users can purchase an optional control panel that includes a second thermistor that allows checking of temperature from multiple locations.



## Easy installation

Installation speed and ease is improved by reducing the total number of screws used and placing the screws on the easily accessible front panel.



# CEILING SUSPENDED UNIT



## STANDARD INVERTER (R32)

UV18R / UV24R



LG participates in the ECP programme for EUROVENT AC program. Check ongoing validity of certification : [www.eurovent-certification.com](http://www.eurovent-certification.com)

UU18WR



UU24WR



INDOOR				UV18R N10	UV24R N10
Capacity	Cooling	Min / Nom / Max	kW	1.9 / 5.0 / 6.0	2.8 / 6.8 / 7.5
	Heating	Min / Nom / Max	kW	2.0 / 5.2 / 6.3	3.0 / 7.5 / 8.3
Low Temperature Capacity	Heating -7°C	Max	kW	4.6	6.9
Power Input (Set)	Cooling	Nom	kW	1.38	1.97
	Heating	Nom	kW	1.52	2.20
Power Input (Indoor)		Min / Max	W	20 / 25	40 / 60
Running Current	Cooling/Heating	Nom	A	6.1 / 6.7	8.7 / 9.8
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.62	3.45
COP				3.42	3.40
SEER				6.50	7.10
SCOP				4.30	4.30
Pdesign (@-10°C)			kW	4.1	5.4
Seasonal Energy Label	Cooling / Heating (A++ to E Scale)			A++ / A+	A++ / A+
Annual Energy Consumption	Cooling / Heating		kWh	269 / 1,335	335 / 1,758
	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
Piping Connection	Gas		mm (inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	21.5 / 16.0	21.5 / 16.0
Air Flow Rate		High / Medium / Low	m³/min	130 / 120.0 / 11.0	160.0 / 150.0 / 14.0
Sound Pressure	Cooling	High / Medium / Low	dB(A)	42 / 40 / 39	44 / 43 / 41
Sound Power	Cooling	Max	dB(A)	55	61
Dehumidification Rate			l/h	1.9	3.0
Dimensions	Body	W x H x D	mm	1,200 x 235 x 690	1,200 x 235 x 690
Net Weight	Body		kg	27.3	28.0

OUTDOOR				UU18WR U20	UU24WR U40
Compressor	Type			Twin Rotary	Twin Rotary
Airflow Rate		Nom	m³/min	50	58
Sound Pressure	Cooling	Nom	dB(A)	47	48
	Heating	Nom	dB(A)	52	52
Sound Power	Cooling	Max	dB(A)	63	67
Dimensions	W x H x D		mm	870 x 650 x 330	950 x 834 x 330
Net Weight			kg	44.8	56.1
Refrigerant	Type			R32	R32
	Charge		g	1,100	1,600
	Additional Charge (after 10m)		g/m	20	35
	GWP			675	675
Operation Range (Outdoor)	t-CO <sub>2</sub> eq			0.74	1.08
	Cooling	Min ~ Max	°C DB	-15 ~ -48	-15 ~ -48
	Heating	Min ~ Max	°C WB	-18 ~ -18	-18 ~ -18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm²	3C x 2.5	3C x 2.5
Transmission Cable			No. x mm²	4C x 0.75	4C x 0.75
Circuit Breaker			A	20	25
Piping Length Total		Min ~ Max	m	5 ~ 30	5 ~ 50
Piping Elevation Difference	IDU - ODU	Max	m	30	30
Piping Connection	Liquid		mm (inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)

Note: 1. Due to our policy of innovation some specifications may be changed without notification.

2. Definition of Power Input Nominal conditions – Performance tested under EN14511

3. Capacities are based on the following conditions:

Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB

4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition

5. This product contains fluorinated greenhouse gases (R32)

# CEILING SUSPENDED UNIT



## STANDARD INVERTER (R32)

UV36 / UV42R / UV48R / UV60R



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Check ongoing validity of certification  
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INDOOR				UV36R.N20	UV42R.N20	UV48R.N20	UV60R.N20
Capacity	Cooling	Min / Nom / Max	kW	4.5 / 9.5 / 13.0	5.0 / 12.0 / 14.5	5.5 / 13.4 / 16.0	5.7 / 14.4 / 15.7
	Heating	Min / Nom / Max	kW	5.0 / 10.8 / 13.7	5.5 / 13.5 / 16.5	6.1 / 15.5 / 18.0	6.8 / 16.8 / 18.7
Low Temperature Capacity	Heating -7°C	Max	kW	9.4	12.5	14.3	15.2
Power Input (Set)	Cooling	Nom	kW	2.30	3.65	4.15	4.90
	Heating	Nom	kW	2.75	4.00	4.90	5.55
Power Input (Indoor)		Min / Max	W	30 / 180	30 / 180	30 / 180	30 / 180
Running Current	Cooling/Heating	Nom	A	10.0 / 12.0	16.9 / 16.0	18.0 / 21.3	21.3 / 24.1
Power Supply		Ø / V / Hz		1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				4.13	3.28	3.23	2.94
COP				3.93	3.37	3.16	3.03
SEER				5.62	5.5	5.51	5.45
SCOP				4.04	4.0	3.96	3.92
Pdesign (@-10°C)			kW	8.05	8.05	9.3	9.3
Seasonal Energy Label	Cooling / Heating			A+ / A+ (A++ to E Scale)	A / A+	-	-
Annual Energy Consumption	Cooling / Heating		kWh	594 / 2,800	764 / 2,800	1,459 / 3,288	1,651 / 3,321
Piping Connection	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	21.5 / 16.0	21.5 / 16.0	21.5 / 16.0	21.5 / 16.0
Air Flow Rate		High / Medium / Low	m <sup>3</sup> /min	28.0 / 24.0 / 20.0	28.0 / 24.0 / 20.0	30.0 / 25.0 / 20.0	30.0 / 25.0 / 20.0
Sound Pressure	Cooling	High / Medium / Low	dB(A)	46 / 43 / 40	46 / 43 / 40	48 / 44 / 40	48 / 44 / 40
Sound Power	Cooling	Max	dB(A)	63	63	63	63
Dehumidification Rate			l/h	3.8	5.8	6.3	7.1
Dimensions	Body	W x H x D	mm	1,600 x 690 x 235	1,600 x 690 x 235	1,600 x 690 x 235	1,600 x 690 x 235
Net Weight	Body		kg	36.5	36.5	36.5	36.5

OUTDOOR				UU36WR.U30	UU42WR.U30	UU48WR.U30	UU60WR.U30
Compressor	Type			R-Scroll	R-Scroll	R-Scroll	R-Scroll
Airflow Rate	Nom		m <sup>3</sup> /min	110	110	110	110
Sound Pressure	Cooling	Nom	dB(A)	52	52	52	52
	Heating	Nom	dB(A)	54	54	54	54
Sound Power	Cooling	Max	dB(A)	66	67	68	68
Dimensions	W x H x D		mm	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330
Net Weight			kg	87.5	87.5	87.5	87.5
Refrigerant	Type			R32	R32	R32	R32
	Charge		g	3,000	3,000	3,000	3,000
	Additional Charge (after 7.5m)		g/m	40	40	40	40
	GWP			675	675	675	675
	t-CO <sub>2</sub> eq			2.03	2.03	2.03	2.03
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-15 - 48	-15 - 48	-15 - 48	-15 - 48
	Heating	Min - Max	°C WB	-25 - 18	-25 - 18	-25 - 18	-25 - 18
Power Supply			Ø / V / Hz	3 / 380-415 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm <sup>2</sup>	5C x 2.5	3C x 6.0	3C x 6.0	3C x 6.0
Transmission Cable			No. x mm <sup>2</sup>	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	20	40	40	40
Piping Length Total		Min - Max	m	5-85	5-85	5-85	5-85
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30	30
Piping Connection	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
3. Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
5. This product contains fluorinated greenhouse gases (R32)

## STANDARD INVERTER (R32)

UV36 / UV42R / UV48R / UV60R



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INDOOR				UV36 NK2	UV42R.N20	UV48R.N20	UV60R.N20
Capacity	Cooling	Min / Nom / Max	kW	4.5 / 9.5 / 13.0	5.0 / 12.0 / 14.5	5.5 / 13.4 / 16.0	5.7 / 14.4 / 15.7
	Heating	Min / Nom / Max	kW	5.0 / 10.8 / 13.7	5.5 / 13.5 / 16.5	6.1 / 15.5 / 18.0	6.8 / 16.8 / 18.7
Low Temperature Capacity	Heating -7°C	Max	kW	9.4	12.5	14.3	15.2
Power Input (Set)	Cooling	Nom	kW	2.30	3.65	4.15	4.90
	Heating	Nom	kW	2.75	4.00	4.90	5.55
Power Input (Indoor)		Min / Max	W	30 / 180	30 / 180	30 / 180	30 / 180
Running Current	Cooling/Heating	Nom	A	3.3 / 4.0	5.6 / 5.3	6.0 / 7.1	7.1 / 8.0
Power Supply		Ø / V / Hz		1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				4.13	3.21	3.11	2.94
COP				3.93	3.37	3.41	3.03
SEER				5.60	5.5	-	5.45
SCOP				4.00	4.0	-	3.92
Pdesign (@-10°C)			kW	8.05	8.05	-	9.3
Seasonal Energy Label	Cooling / Heating			A+ / A+ (A++ to E Scale)	A / A+	-	-
Annual Energy Consumption	Cooling / Heating		kWh	594 / 2,800	764 / 2,800	1,459 / 3,288	1,651 / 3,321
Piping Connection	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain	O.D. / I.D.	mm	21.5 / 16.0	21.5 / 16.0	21.5 / 16.0	21.5 / 16.0
Air Flow Rate		High / Medium / Low	m <sup>3</sup> /min	28.0 / 24.0 / 20.0	28.0 / 24.0 / 20.0	30.0 / 25.0 / 20.0	30.0 / 25.0 / 20.0
Sound Pressure	Cooling	High / Medium / Low	dB(A)	46 / 43 / 40	46 / 43 / 40	48 / 44 / 40	48 / 44 / 40
Sound Power	Cooling	Max	dB(A)	63	63	63	63
Dehumidification Rate			l/h	3.8	5.8	6.3	7.1
Dimensions	Body	W x H x D	mm	1,600 x 690 x 235	1,600 x 690 x 235	1,600 x 690 x 235	1,600 x 690 x 235
Net Weight	Body		kg	36.5	36.5	36.5	36.5

OUTDOOR				UU37WR.U30	UU43WR.U30	UU49WR.U30	UU61WR.U30
Compressor	Type			R-Scroll	R-Scroll	R-Scroll	R-Scroll
Airflow Rate	Nom		m <sup>3</sup> /min	110	110	110	110
Sound Pressure	Cooling	Nom	dB(A)	52	52	52	52
	Heating	Nom	dB(A)	54	54	54	54
Sound Power	Cooling	Max	dB(A)	66	67	68	68
Dimensions	W x H x D		mm	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330
Net Weight			kg	87.5	87.5	87.5	87.5
Refrigerant	Type			R32	R32	R32	R32
	Charge		g	3,000	3,000	3,000	3,000
	Additional Charge (after 7.5m)		g/m	40	40	40	40
	GWP			675	675	675	675
	t-CO <sub>2</sub> eq			2.03	2.03	2.03	2.03
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-15 - 48	-15 - 48	-15 - 48	-15 - 48
	Heating	Min - Max	°C WB	-25 - 18	-25 - 18	-25 - 18	-25 - 18
Power Supply			Ø / V / Hz	3 / 380-415 / 50	3 / 380-415 / 50	3 / 380-415 / 50	3 / 380-415 / 50
Power Supply Cable			No. x mm <sup>2</sup>	5C x 2.5	3C x 6.0	5C x 2.5	5C x 2.5
Transmission Cable			No. x mm <sup>2</sup>	4C x 0.75	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	20	40	40	40
Piping Length Total		Min - Max	m	5-85	5-85	5-85	5-85
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30	30
Piping Connection	Liquid		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
3. Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
5. This product contains fluorinated greenhouse gases (R32)

SINGLE SPLIT SPECIFICATION

# CEILING & FLOOR CONVERTIBLE

## STANDARD INVERTER (R410A)

CV09  
CV12



UU09W / UU12W



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INDOOR				CV09 NE2	CV12 NE2
Capacity	Cooling	Min / Nom / Max	kW	1.0 / 2.5 / 2.8	1.3 / 3.3 / 3.6
	Heating	Min / Nom / Max	kW	1.2 / 3.0 / 3.3	1.5 / 3.8 / 4.2
Low Temperature Capacity	Heating -7°C	Max	kW	3.1	3.4
		Nom	kW	0.75	1.09
Power Input (Set)	Heating	Nom	kW	0.83	1.18
		Nom	W	30	40
Power Input (Indoor)		Nom	W	30	40
Running Current	Cooling / Heating	Nom	A	3.26 / 3.61	4.74 / 5.13
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.33	3.03
COP				3.61	3.22
SEER				5.11	5.31
SCOP				3.81	3.81
Pdesign (@ -10°C)			kW	3.0	3.0
Seasonal Energy Label	Cooling / Heating (A++ to E Scale)			A / A	A / A
Annual Energy Consumption	Cooling / Heating		kWh	172 / 1,102	218 / 1,102
	Liquid		mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
Piping Connection	Gas		mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Drain	O.D. / I.D.	mm	21.5 / 16.0	21.5 / 16.0
Air Flow Rate		High / Medium / Low	m³/min	7.6 / 6.9 / 6.2	9.2 / 7.6 / 6.6
Sound Pressure	Cooling	High / Medium / Low	dB(A)	38 / 35 / 32	40 / 36 / 31
Sound Power	Cooling	Max	dB(A)	52	56
Dehumidification Rate			l/h	1.2	1.2
Dimensions	Body	W x H x D	mm	900 x 490 x 200	900 x 490 x 200
Net Weight	Body		kg	13.7	13.7

OUTDOOR				UU09W ULD	UU12W ULD
Compressor	Type			Rotary	Rotary
Airflow Rate	Nom		m³/min	32	32
Sound Pressure	Cooling	Nom	dB(A)	47	47
	Heating	Nom	dB(A)	48	48
Sound Power	Cooling	Max	dB(A)	56	57
Dimensions	W x H x D		mm	770 x 540 x 245	770 x 540 x 245
Net Weight			kg	32.0	32.0
Refrigerant	Type			R410A	R410A
	Charge		g	1,000	1,000
	Additional Charge		g/m	20	20
	GWP			2,087.5	2,087.5
	TCO2eq			2.1	2.1
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-10 - 43	-10 - 43
	Heating	Min - Max	°C WB	-18 - 18	-18 - 18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm²	3C x 2.5	3C x 2.5
Transmission Cable			No. x mm²	4C x 0.75	4C x 0.75
Circuit Breaker			A	15	15
Piping Length Total		Min - Max	m	5 - 15	5 - 15
Piping Elevation Difference	IDU - ODU	Max	m	10	10
Piping Connection	Liquid		mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas		mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)

- Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
 3. Capacities are based on the following conditions:  
 Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
 4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
 5. This product contains fluorinated greenhouse gases (R410A)

# CONSOLE

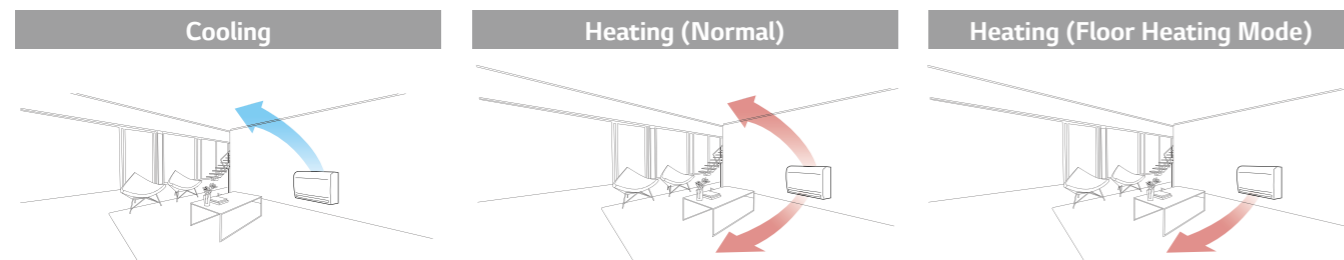




# CONSOLE

## Optimised Air Flow for Cooling & Heating

During the cooling operation, the vane adjusts upwards to direct the air flow towards the ceiling. When heating, the vane directs the warm air downwards to balance out the room temperature especially towards the floor. It is controlled by wireless remote controller which is included indoor unit product



## Quick Floor Heating

Console air conditioners portray high speed and powerful performance. Using the floor heating mode, console air conditioners provides floor heating at a faster pace and helps to reach the desired temperature quickly.

	Company A	Electric Heater	LG	LG Floor Heating Mode
27°C				
15°C				
<b>Lead Time for Heating (13°C - 21°C)</b>	12 minutes 30 seconds	50 minutes	<b>9 minutes 30 seconds</b>	<b>8 minutes 40 seconds</b>

(Test Condition :Target Temp 23°C, Indoor Room : 13°C-, Outdoor Room : 7°C)

## 5-Step Vane Control

There are 5 different stages to control air flow direction.



## Healthier Air



### Advanced Pre Filter :

The antibacterial pre-filter primarily reduces large dust particles, mould and quilt dust.

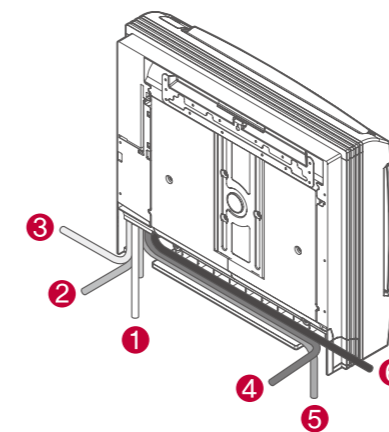


### Plasma Ion Generator :

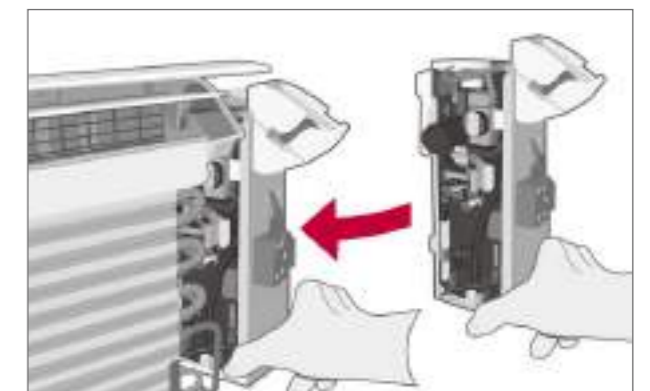
The sterilised ion generator emits around 1.2 million ions, and traps some of the airborne hazardous substances.

## Easy Installation and Service

### 6 Different Ways to Install Piping



### Easy Slide-type PCB





# CONSOLE

## STANDARD INVERTER (R410A)

CQ09  
CQ12  
CQ18



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UU09W  
UU12W



UU18W



INDOOR				CQ09 NAO	CQ12 NAO	CQ18 NAO
Capacity	Cooling	Min / Nom / Max	kW	1.3 / 2.6 / 3.4	1.4 / 3.5 / 3.7	2.2 / 5.0 / 5.6
	Heating	Min / Nom / Max	kW	1.4 / 3.1 / 4.2	1.6 / 4.0 / 4.4	2.2 / 4.8 / 5.8
Low Temperature Capacity	Heating -7°C	Max	kW	3.4	3.6	4.9
		Nom	kW	0.64	1.06	1.55
Power Input (Set)	Cooling	Nom	kW	0.74	1.08	1.50
	Heating	Nom	W	20	30	40
Power Input (Indoor)	Cooling / Heating	Nom	A	3.42 / 3.87	5.02 / 5.03	7.0 / 6.9
Running Current			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply				3.98	3.30	3.23
EER				4.19	3.70	3.20
COP				5.11	5.31	6.2
SEER				3.81	3.81	3.81
SCOP				2.8	3.0	3.8
Pdesign (@ -10°C)				A / A	A / A	A++ / A
Seasonal Energy Label	Cooling / Heating (A++ to E Scale)			172 / 1,032	231 / 1,105	282 / 1,396
Annual Energy Consumption	Cooling / Heating		kWh	06.35 (1/4)	06.35 (1/4)	06.35 (1/4)
	Liquid		mm (inch)	09.52 (3/8)	09.52 (3/8)	Ø12.7 (1/2)
Piping Connection	Gas		mm (inch)	21.5 / 16.0	21.5 / 16.0	21.5 / 16.0
	Drain	O.D. / I.D.	mm	8.5 / 6.7 / 5.0	9.0 / 6.9 / 5.2	10.1 / 8.6 / 7.2
Air Flow Rate	High / Medium / Low		m³/min	38 / 32 / 27	39 / 32 / 27	44 / 39 / 35
Sound Pressure	Cooling	High / Medium / Low	dBA	53	56	60
Sound Power	Cooling	Max	dBA	1.2	1.4	2.3
Dehumidification Rate			l/h	700 x 600 x 210	700 x 600 x 210	700 x 600 x 210
Dimensions	Body	W x H x D	mm	14.0	14.0	14.0
Net Weight	Body		kg			

OUTDOOR				UU09W ULD	UU12W ULD	UU18W UE4
Compressor	Type			Rotary	Rotary	Twin Rotary
Airflow Rate	Nom		m³/min	32	32	50
Sound Pressure	Cooling	Nom	dBA	47	47	47
	Heating	Nom	dBA	48	48	52
Sound Power	Cooling	Max	dBA	56	57	63
Dimensions	W x H x D		mm	770 x 540 x 245	770 x 540 x 245	870 x 655 x 320
Net Weight			kg	32.0	32.0	44.6
Refrigerant	Type			R410A	R410A	R410A
	Charge		g	1,000	1,000	1,300
	Additional Charge		g/m	20	20	20
	GWP			2,087.5	2,087.5	2,087.5
	TCO2eq			2.1	2.1	2.7
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-10 - 43	-10 - 43	-15 - 48
	Heating	Min - Max	°C WB	-18 - 18	-18 - 18	-18 - 18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm²	3C x 2.5	3C x 2.5	3C x 2.5
Transmission Cable			No. x mm²	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	15	15	20
Piping Length Total	IDU - ODU	Min - Max	m	5 - 15	5 - 15	5 - 30
Piping Elevation Difference	IDU - ODU	Max	m	10	10	30
Piping Connection	Liquid		mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas		mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)

Note : 1. Due to our policy of innovation some specifications may be changed without notification.

2. Definition of Power Input Nominal conditions - Performance tested under EN14511

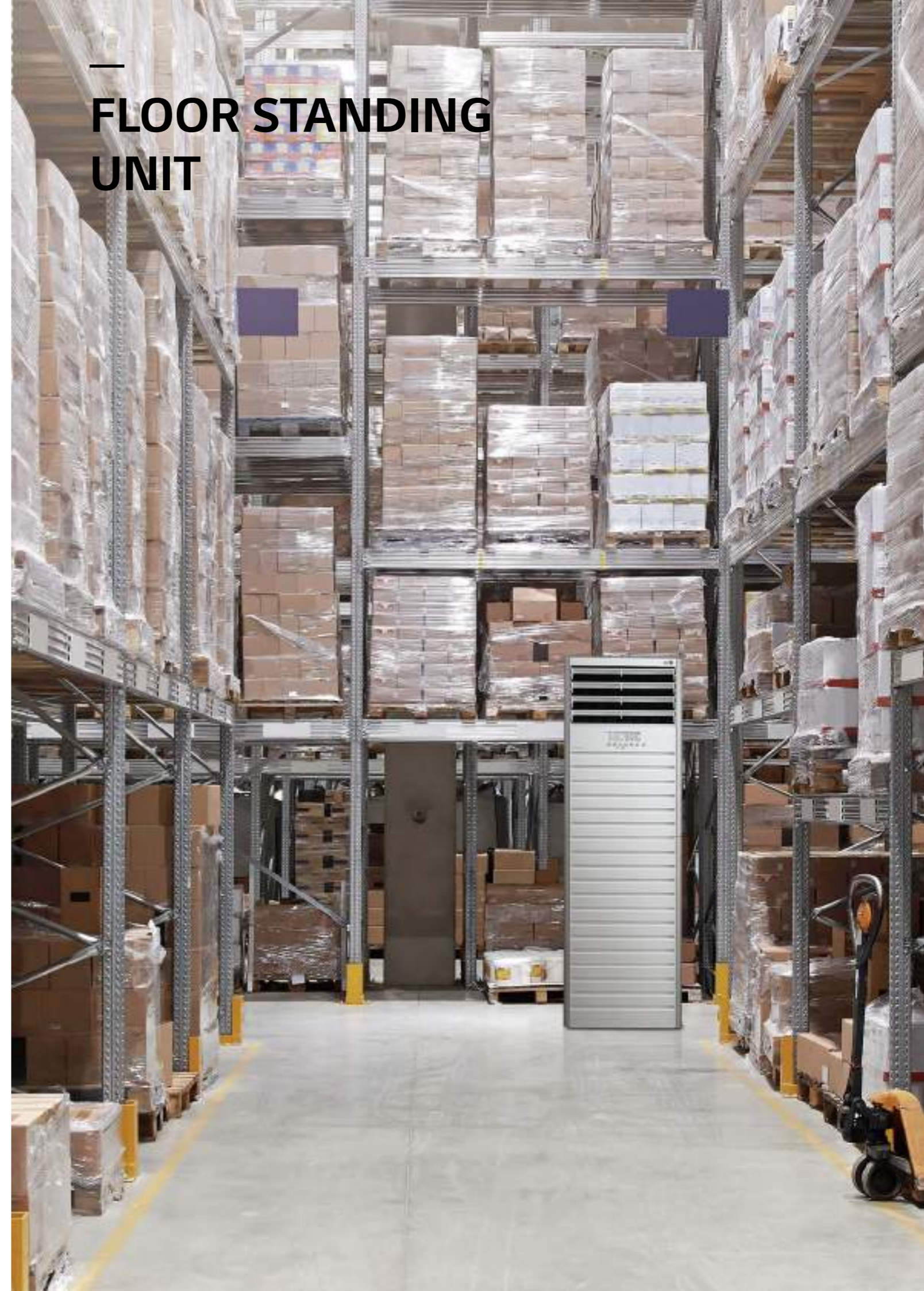
3. Capacities are based on the following conditions:

Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB

4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition

5. This product contains fluorinated greenhouse gases (R410A)

# FLOOR STANDING UNIT





# FLOOR STANDING UNIT

## Stylish Design

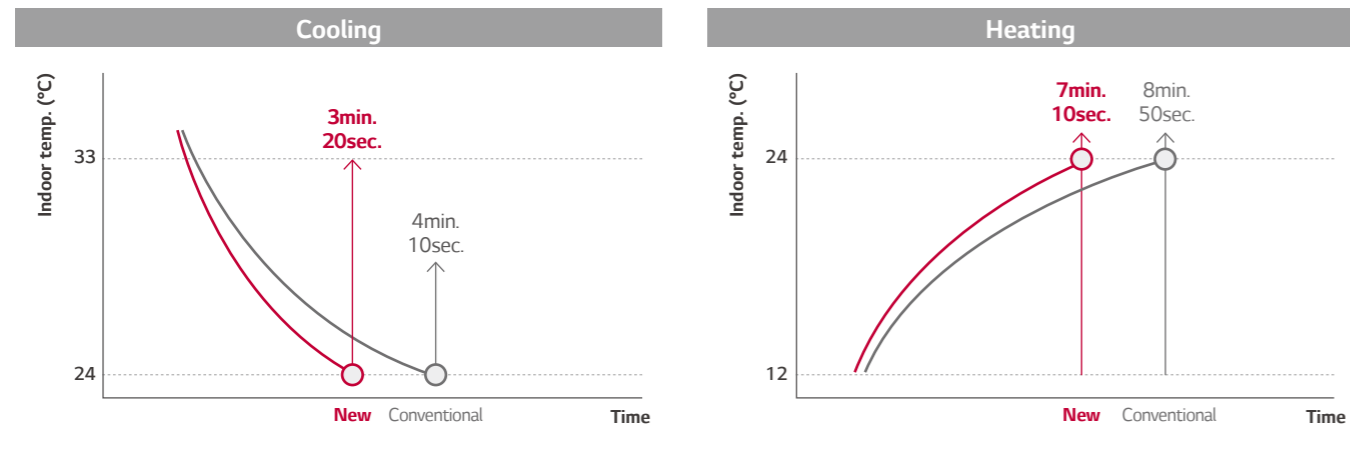
The new LG floor standing air conditioner which is Red Dot design award winner 2013, is ideal for modern interiors in your home or office.



reddot design award  
winner 2013

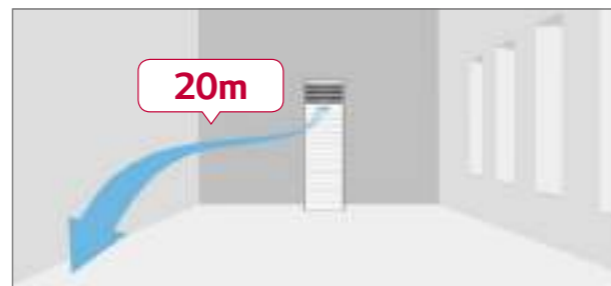
## Quick Response

Offering powerful cooling, the commercial air conditioning system can reach a set temperature in a shorter period of time. Meanwhile, the Power Heating function provides the optimal airflow angle, guaranteeing a faster heating performance.



## Powerful Air Flow

The new LG floor standing air conditioner is efficient for using in large areas due to its powerful cooling and heating operation. The powerful air speed and volume means the air flow can reach up to 20m away from the air conditioner.



# FLOOR STANDING UNIT

## STANDARD INVERTER (R410A)

UP48

UU48W / UU49W



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: www.eurovent-certification.com



INDOOR				UP48 NT2	
Capacity	Cooling	Min / Nom / Max	kW	6.0 / 13.4 / 15.2	6.0 / 13.4 / 15.2
	Heating	Min / Nom / Max	kW	6.0 / 15.5 / 17.1	6.0 / 15.5 / 17.1
Low Temperature Capacity	Heating -7°C	Max	kW	16.0	16.0
	Cooling	Nom	kW	4.2	4.2
Power Input (Set)	Heating	Nom	kW	4.5	4.5
		Nom	W	200	200
Running Current	Cooling / Heating	Nom	A	18.1 / 19.5	5.76 / 6.20
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.21	3.21
COP				3.41	3.41
SEER				5.05	5.05
SCOP				3.51	3.51
Pdesign (@ -10°C)			kW	11.5	11.5
Seasonal Energy Label	Cooling / Heating			-	-
Annual Energy Consumption	Cooling / Heating		kWh	-	-
Piping Connection	Liquid		mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas		mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain	O.D. / I.D.	mm	32 / 25	32 / 25
Air Flow Rate		High / Medium / Low	m³/min	31 / 27 / 23	31 / 27 / 23
Sound Pressure	Cooling	High / Medium / Low	dB(A)	52 / 49 / 45	52 / 49 / 45
Sound Power	Cooling	Max	dB(A)	59	59
Dehumidification Rate			l/h	5.0	5.0
Dimensions	Body	W x H x D	mm	590 x 1,840 x 460	590 x 1,840 x 460
Net Weight	Body		kg	50.0	50.0

OUTDOOR				UU48W U32		UU49W U32	
Compressor	Type			Twin Rotary		Twin Rotary	
Airflow Rate		Nom	m³/min	110		110	
Sound Pressure	Cooling	Nom	dB(A)	52		52	
	Heating	Nom	dB(A)	54		54	
Sound Power	Cooling	Max	dB(A)	68		68	
Dimensions	W x H x D		mm	950 x 1,380 x 330		950 x 1,380 x 330	
Net Weight			kg	92.0		96.0	
Refrigerant	Type			R410A		R410A	
	Charge		g	3,400		3,400	
	Additional Charge		g/m	40		40	
	GWP			2087.5		2087.5	
	TCO2eq			7.1		7.1	
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-15 - 48		-15 - 48	
	Heating	Min - Max	°C WB	-18 - 18		-18 - 18	
Power Supply			Ø / V / Hz	1 / 220-240 / 50		3 / 380-415 / 50	
Power Supply Cable			No. x mm²	3C x 5.0		5C x 5.0	
Transmission Cable			No. x mm²	4C x 0.75		4C x 0.75	
Circuit Breaker			A	40		20	
Piping Length Total		Min - Max	m	75		75	
Piping Elevation Difference	IDU - ODU	Max	m	30		30	
Piping Connection	Liquid		mm (inch)	Ø9.52 (3/8)		Ø9.52 (3/8)	
	Gas		mm (inch)	Ø15.88 (5/8)		Ø15.88 (5/8)	

Note: 1. Due to our policy of innovation some specifications may be changed without notification.

2. Definition of Power Input Nominal conditions - Performance tested under EN14511

3. Capacities are based on the following conditions:

Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB

4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition

5. This product contains fluorinated greenhouse gases (R410A)

# WALL MOUNTED UNIT

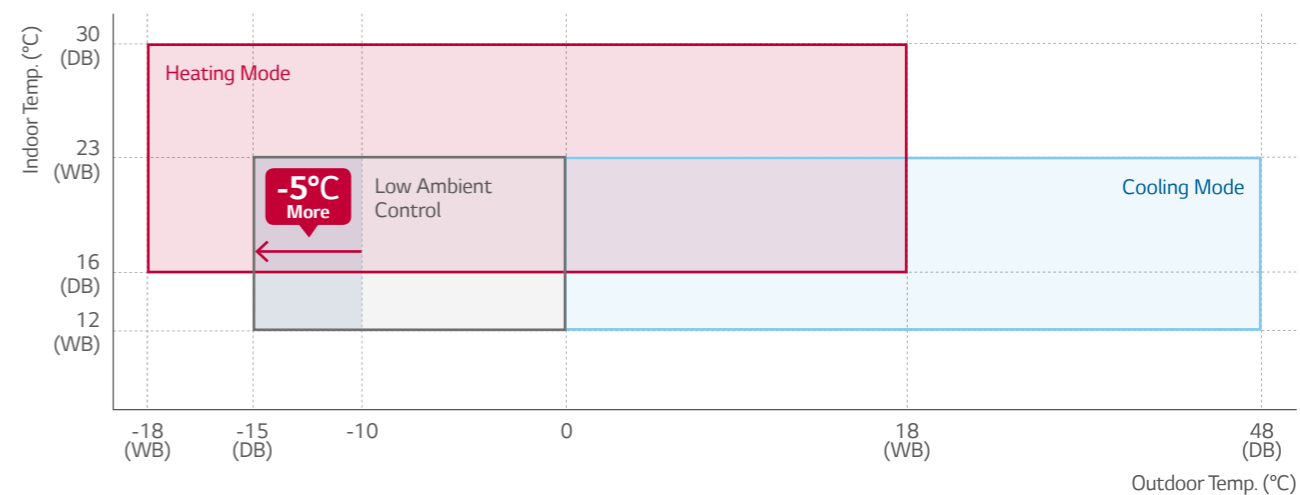


SINGLE SPLIT KEY FEATURES

## WALL MOUNTED UNIT

### Wide Operation Range

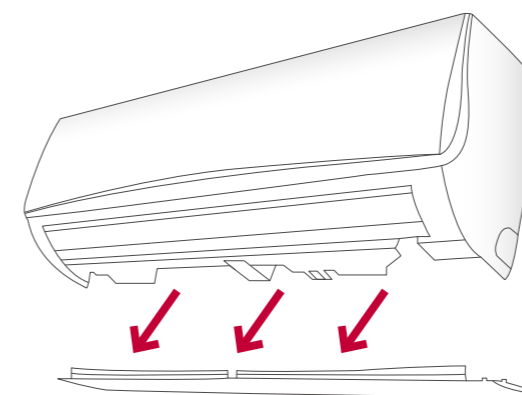
Ideal and comprehensive solution for server rooms, machine rooms and kitchens.



### Easy Installation

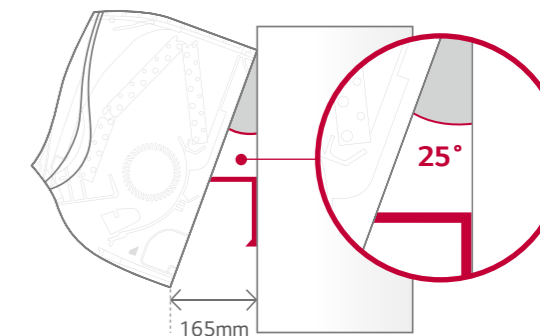
#### Detachable Bottom Cover

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.



COMMERCIAL



# WALL MOUNTED UNIT

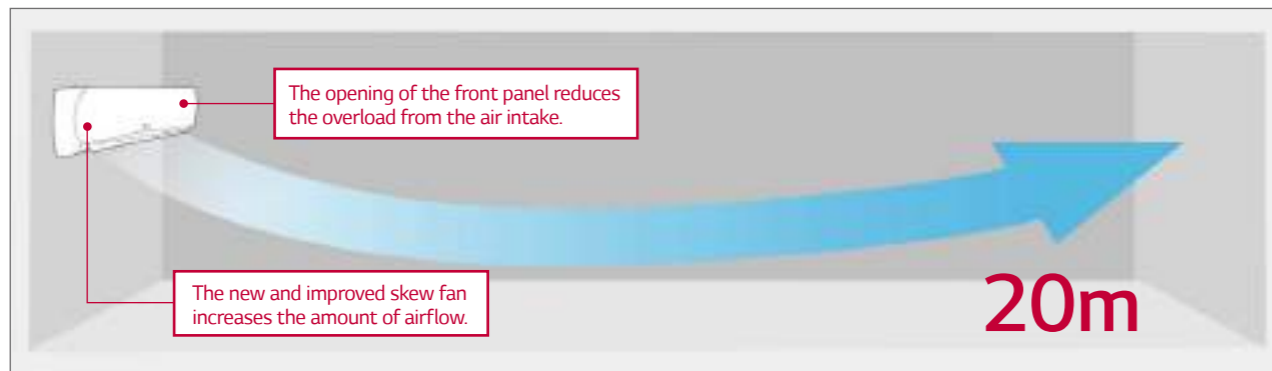
## High Energy Efficiency

New wall mounted units provide good seasonal energy efficiency connected with Standard Inverter outdoor units.

	8.0kW	10kW
SEER	6.1 (A++)	5.4 (A)
SCOP	3.9 (A)	3.8 (A)

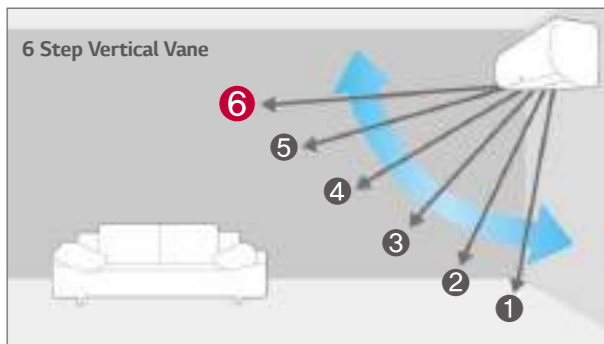
## Powerful Cooling & Heating

### 20m Windblast



### Optimised Airflow

Direction of horizontal vane can be adjusted from step 1 to step 6 with full auto swing. This function can cool and heat specific areas much faster.



### Quick Cooling & Heating

Jet cooling and heating disperses air evenly at high speed to secure an optimally cooled or heated room in just 3 minutes.



# WALL MOUNTED UNIT

## STANDARD INVERTER (R410A)

### UJ30 / UJ36



LG participates in the ECP programme for EUROVENT AC program. Check ongoing validity of certification : [www.eurovent-certification.com](http://www.eurovent-certification.com)

### UU30W



### UU36W UU37W



INDOOR				UJ30 NV2	UJ36 NV2	UJ36 NV3
Capacity	Cooling	Min / Nom / Max	kW	3.5 / 7.8 / 8.5	4.0 / 9.5 / 10.5	4.0 / 9.5 / 10.5
	Heating	Min / Nom / Max	kW	4.0 / 8.4 / 9.2	4.4 / 10.5 / 11.5	4.4 / 10.5 / 11.5
Low Temperature Capacity	Heating -7°C	Max	kW	7.5	9.4	9.4
	Cooling	Nom	kW	2.29	2.79	2.79
Power Input (Set)	Heating	Nom	kW	2.46	3.08	3.08
		Nom	W	140	160	160
Running Current	Cooling / Heating	Nom	A	10.0 / 10.7	12.1 / 13.4	4.0 / 4.4
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.41	3.41	3.41
COP				3.41	3.41	3.41
SEER				6.11	5.41	5.41
SCOP				3.91	3.81	3.81
Pdesign (@ -10°C)			kW	6.3	7.6	7.6
Seasonal Energy Label	Cooling / Heating	(A++ to E Scale)		A++ / A	A / A	A / A
Annual Energy Consumption	Cooling / Heating	kWh		448 / 2,262	615 / 2,793	615 / 2,793
	Liquid	mm (inch)		Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connection	Gas	mm (inch)		Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain	O.D. / I.D.	mm	21.5 / 16.0	21.5 / 16.0	21.5 / 16.0
Air Flow Rate		High / Medium / Low	m³/min	22.0 / 19.0 / 16.0	27.0 / 24.0 / 20.0	27.0 / 24.0 / 20.0
Sound Pressure	Cooling	High / Medium / Low	dB(A)	45 / 42 / 40	48 / 45 / 41	48 / 45 / 41
Sound Power	Cooling	Max	dB(A)	61	63	63
Dehumidification Rate			l/h	3.0	3.4	3.4
Dimensions	Body	W x H x D	mm	1,190 x 346 x 265	1,190 x 346 x 265	1,190 x 346 x 265
Net Weight	Body		kg	15.7	16.0	16.0

OUTDOOR				UU30W U44	UU36W U02	UU37W U02
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate		Nom	m³/min	58	90	90
Sound Pressure	Cooling	Nom	dB(A)	48	53	53
	Heating	Nom	dB(A)	52	54	54
Sound Power	Cooling	Max	dB(A)	68	66	66
Dimensions	W x H x D		mm	950 x 834 x 330	950 x 1,170 x 330	950 x 1,170 x 330
Net Weight			kg	58.0	81.0	85.0
Refrigerant	Type			R410A	R410A	R410A
	Charge		g	2,000	2,800	2,800
	Additional Charge		g/m	40	40	40
	GWP			2087.5	2087.5	2087.5
	TCO2eq			4.2	5.8	5.8
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-15 - 48	-15 - 48	-15 - 48
	Heating	Min - Max	°C WB	-18 - 18	-18 - 18	-18 - 18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	3 / 380-415 / 50
Power Supply Cable			No. x mm²	3C x 2.5	3C x 5.0	5C x 2.5
Transmission Cable			No. x mm²	3C x 2.5	4C x 0.75	4C x 0.75
Circuit Breaker			A	4C x 0.75	40	20
Piping Length Total		Min - Max	m	25	5 - 50	5 - 50
Piping Elevation Difference	IDU - ODU	Max	m	30	30	30
Piping Connection	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)

Note: 1. Due to our policy of innovation some specifications may be changed without notification.

2. Definition of Power Input Nominal conditions - Performance tested under EN14511

3. Capacities are based on the following conditions:

Cooling: - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating: - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB

4. Annual energy consumption: based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition

5. This product contains fluorinated greenhouse gases (R410A)

# SYNCHRO OPERATION



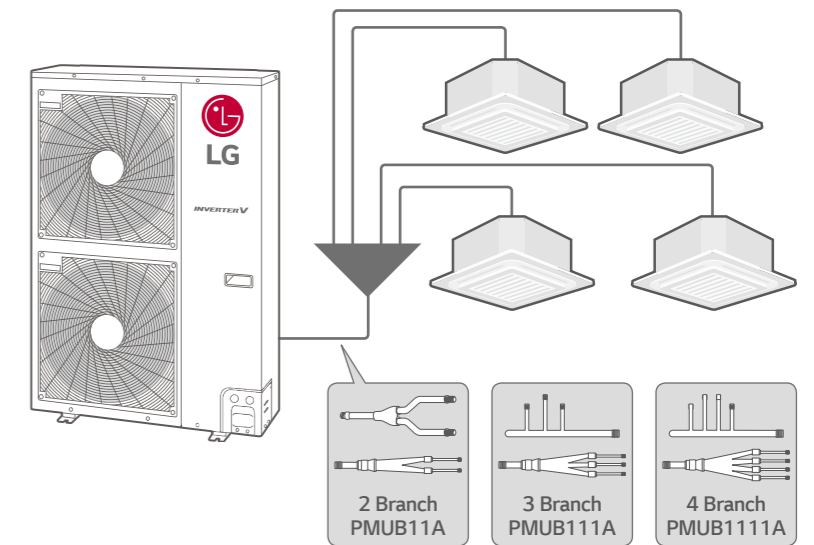
## SINGLE SPLIT KEY FEATURES

# SYNCHRO OPERATION

## Simultaneous Operation

It is possible to connect 2, 3, or 4 indoor units to a single outdoor unit. All indoor units are operated together within the same mode from one remote controller. This allows equal air distribution in large commercial areas.

- High efficiency & Low noise
- Various indoor unit types
- Only using simple branch piping
- Standard Inverter  
- 12.5 / 14.0 / 15.0 / 20.0 / 25.0kW



## Combination Table

	Duo			Trio			Quartet				
	IDU : Indoor Unit ODU : Outdoor Unit BD : Branch Distributor Unit R / C : Wired Remote Controller										
Capacity (kW)	Cooling	Heating	Cassette	Duct	Ceiling Suspended	Cassette	Duct	Ceiling Suspended	Cassette	Duct	Ceiling Suspended
UU42W U32 UU43W U32	12.5	14.0	CT24 NP4 x 2	CM24 N14 x 2 CB24L N32 x 2	CV24 NJ2 x 2	CT18 NQ4 x 3	CM18 N14 x 3 CB18L N22 x 3	CV18 NJ2 x 3	CT12 NR2 x 4	CB12L N22 x 4	-
UU48W U32 UU49W U32	14.0	16.0	CT24 NP4 x 2	CM24 N14 x 2 CB24L N32 x 2	CV24 NJ2 x 2	CT18 NQ4 x 3	CM18 N14 x 3 CB18L N22 x 3	CV18 NJ2 x 3	CT12 NR2 x 4	CB12L N22 x 4	-
UU60W U32 UU61W U32	15.0	17.0	UT30 NP4 x 2	UM30 N14 x 2	UV30 NJ2 x 2	CT18 NQ4 x 3	CM18 N14 x 3 CB18L N22 x 3	CV18 NJ2 x 3	CT12 NR2 x 4	CB12L N22 x 4	-
UU70W U34	19.0	22.4	UT36 NN2 x 2	UM36 N24 x 2	UV36 NK2 x 2	CT24 NP4 x 3	CM24 N14 x 3 CB24L N32 x 3	CV24 NJ2 x 3	CT18 NQ4 x 4	CB18L N22 x 4	CV18 NJ2 x 4
UU85W U74	23.0	27.0	UT42 NM2 x 2	UM42 N24 x 2	UV42 NL2 x 2	CT24 NP4 x 3	CM24 N14 x 3 CB24L N32 x 3	CV24 NJ2 x 3	CT18 NQ4 x 4	CB18L N22 x 4	CV18 NJ2 x 4
<b>Remote Controller</b>	Standard Wired Remote Controller : PREMTB001 (White) / PREMTB001 (Black)										
<b>BD Unit</b>	PMUB11A										
<b>AC EZ</b>	PMUB111A PQCSZ250S0										

\* For Ceiling suspended, the wired remote controller has to be purchased separately.

# SYNCHRO OPERATION

## STANDARD INVERTER (R410A)

UU42W  
UU48W  
UU60W



INDOOR				CT12 / CT18 / CT24 / UT30 NR2/N*4 CM18 / CM24 / UM30 N*4 CB12L / CB18L / CB24L N*2 CV18 / CV24 / UV30 N*2
Capacity	Cooling	Min / Nom / Max	kW	* Please refer to the Combination Table
	Heating	Min / Nom / Max	kW	
Power Input	Cooling	Nom	kW	* Please refer to the specification of each indoor unit. * Below functions are not available for Synchro operation.
	Heating	Nom	kW	
Running Current	Cooling / Heating	Nom	A	- Group Control - Zone Control - Dry Contact - Auto Changeover
	Liquid		mm (inch)	
Piping Connection	Gas		mm (inch)	* Please refer to the specification of each indoor unit. * Below functions are not available for Synchro operation.
	Drain	O.D. / I.D.	mm	
	Air Flow Rate	High / Medium / Low	m <sup>3</sup> /min	
Sound Pressure	Cooling	High / Medium / Low	dBA	- Group Control - Zone Control - Dry Contact - Auto Changeover
Sound Power	Cooling	Max	dBA	
Dehumidification Rate			l/h	
Dimensions	Body	W x H x D	mm	
Net Weight	Body		kg	

OUTDOOR				UU42W U32	UU48W U32	UU60W U32
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate		Nom	m <sup>3</sup> /min	110	110	110
Sound Pressure	Cooling	Nom	dBA	52	52	52
	Heating	Nom	dBA	54	54	54
Sound Power	Cooling	Max	dBA	67	68	71
Dimensions	W x H x D		mm	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330
Net Weight			kg	92.0	92.0	92.0
Refrigerant	Type			R410A	R410A	R410A
	Charge		g	3,400	3,400	3,400
	Additional Charge		g/m	Please refer to the Product Data Book or Installation Manual		
	GWP			2087.5	2087.5	2087.5
	TCO <sub>2eq</sub>			7.1	7.1	7.1
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-15 - 48	-15 - 48	-15 - 48
	Heating	Min - Max	°C WB	-18 - 18	-18 - 18	-18 - 18
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No. x mm <sup>2</sup>	3C x 5.0	3C x 5.0	3C x 5.0
Transmission Cable			No. x mm <sup>2</sup>	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	40	40	40
Piping Connection	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)
Max. Interunit Piping Length	Total Piping (Main + Total Branch)		m	80	80	80
	Main Piping		m	45	45	45
	Total Branch Piping		m	40	40	40
	Each Branch Piping		m	15	15	15
Max. Installation Height Difference	Indoor Unit - Outdoor Unit		m	30	30	30
	Indoor Unit - Indoor Unit		m	1	1	1

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
3. Capacities are based on the following conditions:  
Cooling : - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB Heating : - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB  
4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
5. This product contains fluorinated greenhouse gases (R410A)

# SYNCHRO OPERATION

## STANDARD INVERTER (R410A)

UU43W  
UU49W  
UU61W



INDOOR				CT12 / CT18 / CT24 / UT30 NR2/N*4 CM18 / CM24 / UM30 N*4 CB12L / CB18L / CB24L N*2 CV18 / CV24 / UV30 N*2
Capacity	Cooling	Min / Nom / Max	kW	* Please refer to the Combination Table
	Heating	Min / Nom / Max	kW	
Power Input	Cooling	Nom	kW	* Please refer to the specification of each indoor unit. * Below functions are not available for Synchro operation.
	Heating	Nom	kW	
Running Current	Cooling / Heating	Nom	A	- Group Control - Zone Control - Dry Contact - Auto Changeover
	Liquid		mm (inch)	
Piping Connection	Gas		mm (inch)	* Please refer to the specification of each indoor unit. * Below functions are not available for Synchro operation.
	Drain	O.D. / I.D.	mm	
	Air Flow Rate	High / Medium / Low	m <sup>3</sup> /min	
Sound Pressure	Cooling	High / Medium / Low	dBA	- Group Control - Zone Control - Dry Contact - Auto Changeover
Sound Power	Cooling	Max	dBA	
Dehumidification Rate			l/h	
Dimensions	Body	W x H x D	mm	
Net Weight	Body		kg	

OUTDOOR				UU43W U32	UU49W U32	UU61W U32
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate		Nom	m <sup>3</sup> /min	110	110	110
Sound Pressure	Cooling	Nom	dBA	52	52	52
	Heating	Nom	dBA	54	54	54
Sound Power	Cooling	Max	dBA	67	68	71
Dimensions	W x H x D		mm	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330
Net Weight			kg	96.0	96.0	96.0
Refrigerant	Type			R410A	R410A	R410A
	Charge		g	3,400	3,400	3,400
	Additional Charge		g/m	Please refer to the Product Data Book or Installation Manual		
	GWP			2087.5	2087.5	2087.5
	TCO <sub>2eq</sub>			7.1	7.1	7.1
Operation Range (Outdoor)	Cooling	Min - Max	°C DB	-15 - 48	-15 - 48	-15 - 48
	Heating	Min - Max	°C WB	-18 - 18	-18 - 18	-18 - 18
Power Supply			Ø / V / Hz	3 / 380-415 / 50	3 / 380-415 / 50	3 / 380-415 / 50
Power Supply Cable			No. x mm <sup>2</sup>	5C x 2.5	5C x 2.5	5C x 2.5
Transmission Cable			No. x mm <sup>2</sup>	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	20	20	20
Piping Connection	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)
Max. Interunit Piping Length	Total Piping (Main + Total Branch)		m	80	80	80
	Main Piping		m	45	45	45
	Total Branch Piping		m	40	40	40
	Each Branch Piping		m	15	15	15
Max. Installation Height Difference	Indoor Unit - Outdoor Unit		m	30	30	30
	Indoor Unit - Indoor Unit		m	1	1	1

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
2. Definition of Power Input Nominal conditions - Performance tested under EN14511  
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4. Annual energy consumption : based on average use of 350 running hours in cooling and 1,400 hours in heating per year at seasonal condition  
5. This product contains fluorinated greenhouse gases (R410A)