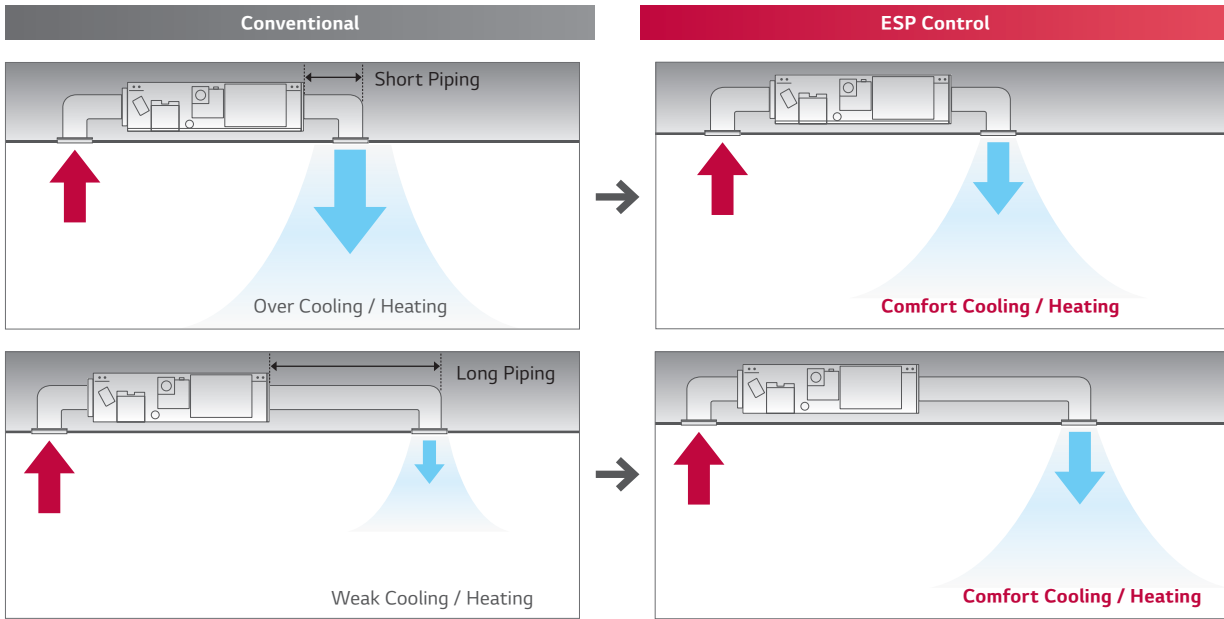


# CEILING CONCEALED DUCT



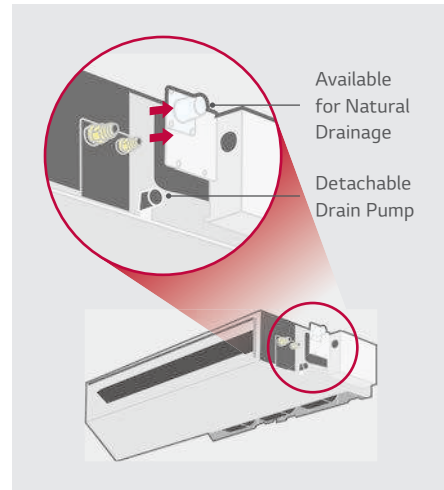
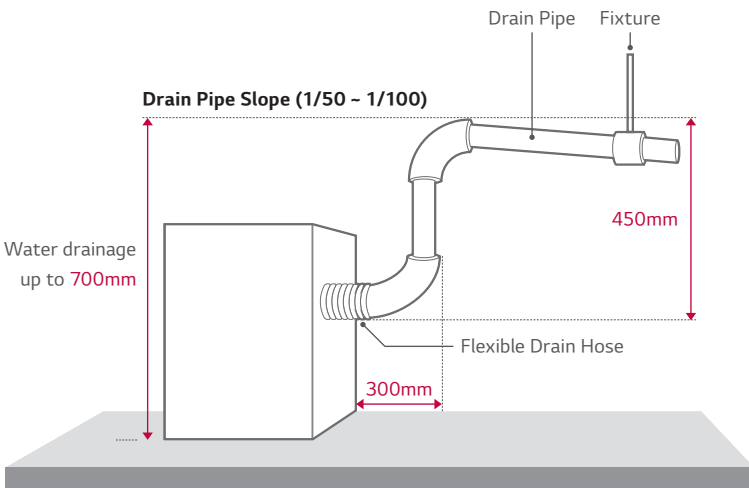
# External Static Pressure (ESP) Control

User has easy access to air volume selection via remote controller using the ESP control function. The BLDC motor can control fan speed and air volume. No additional accessories are necessary to control air flow.



# High Head Drain Pump

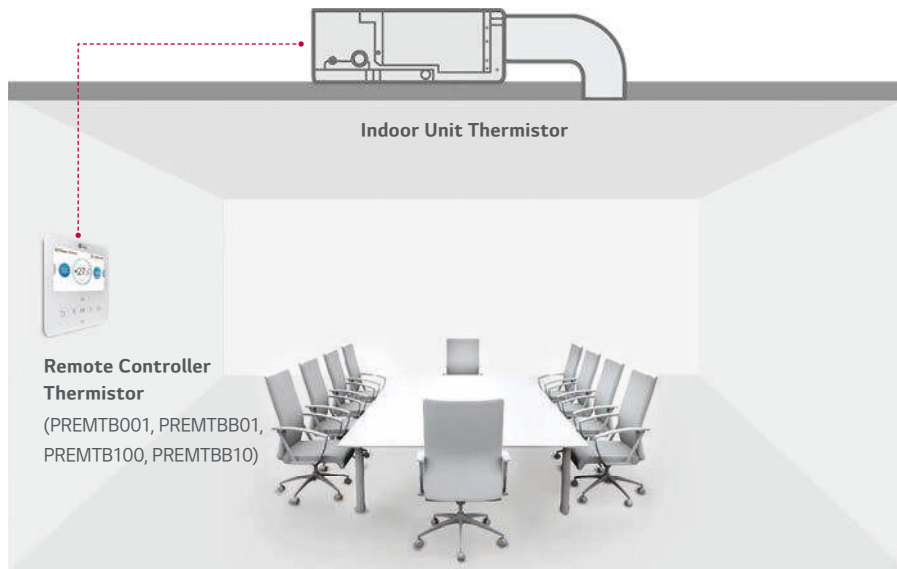
High head drain pump automatically drains water up to a height of 700mm of drain-head height. It provides the perfect solution for draining of water.



※ Standard Inverter : Accessory (ABDPG) / Low-Static Duct : Included  
 ※ Required by option for Standard / Compact Inverter high static pressure models.

## 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 optimize indoor air temperature for a more comfortable environment.



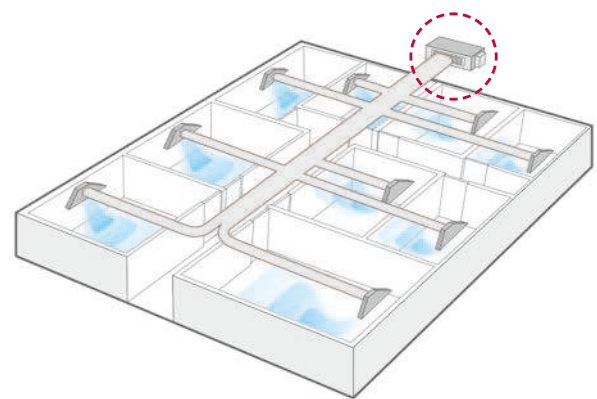
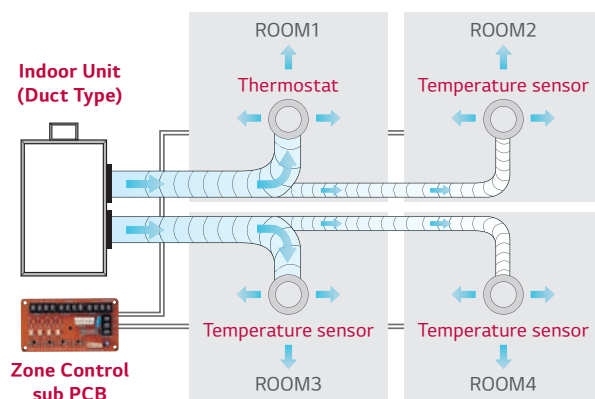
Compares temperatures sensed from different positions, and automatically selects the optimum temperature for users.

## 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

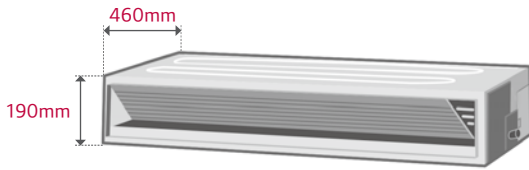
- Controls different zones (Up to 4 zones) by external thermostat (AC 24V)
- Maintain proper air volume of each zone
- Auto variation of dampers
- Auto control of fan speed and On / Off operation



# Minimized Height and Depth

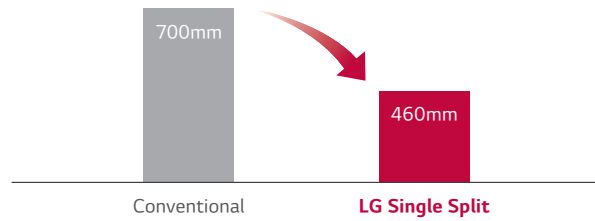
New Low Static ducts provide ideal solution for installation in limited space.

## Low Static Duct



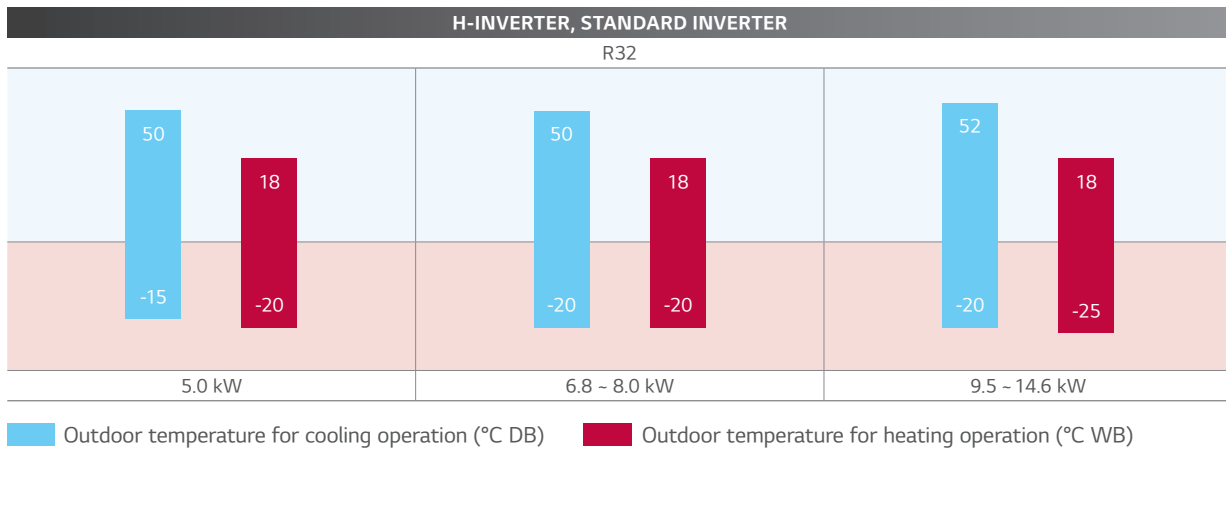
※ CL09F N50, CL12F N50, CL18F N60, UL12FH N50 only

## Depth



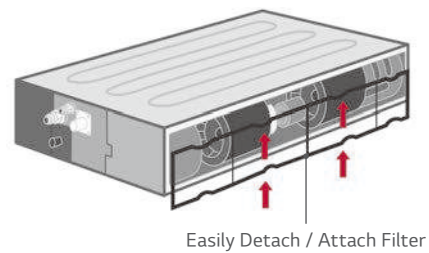
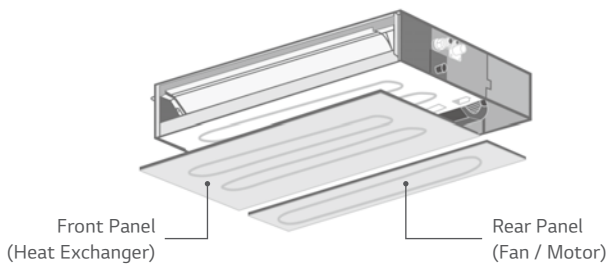
※ 2.5 / 3.4 / 5 kW

# Wide Operation Range



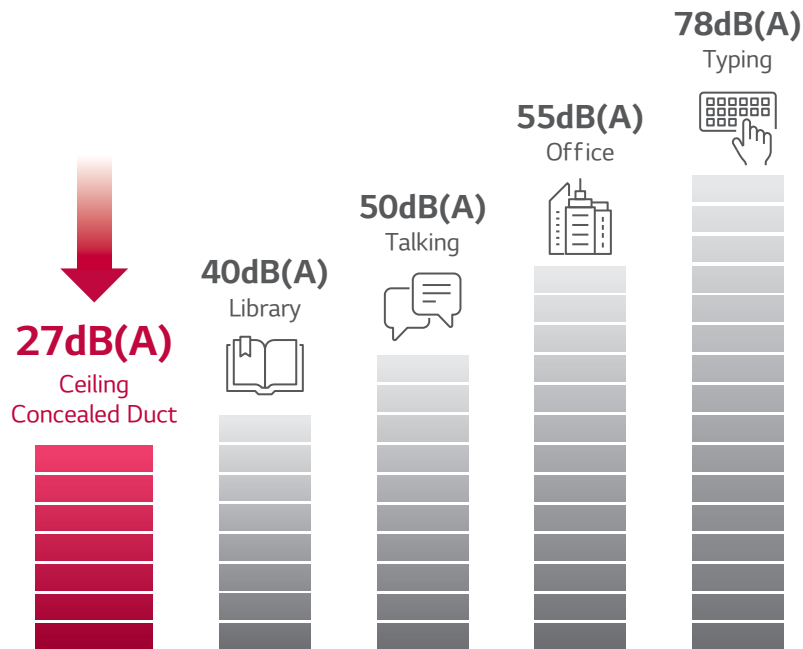
# Easy Service & Maintenance

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.



## Quiet Operation (Low Static Pressure Model)

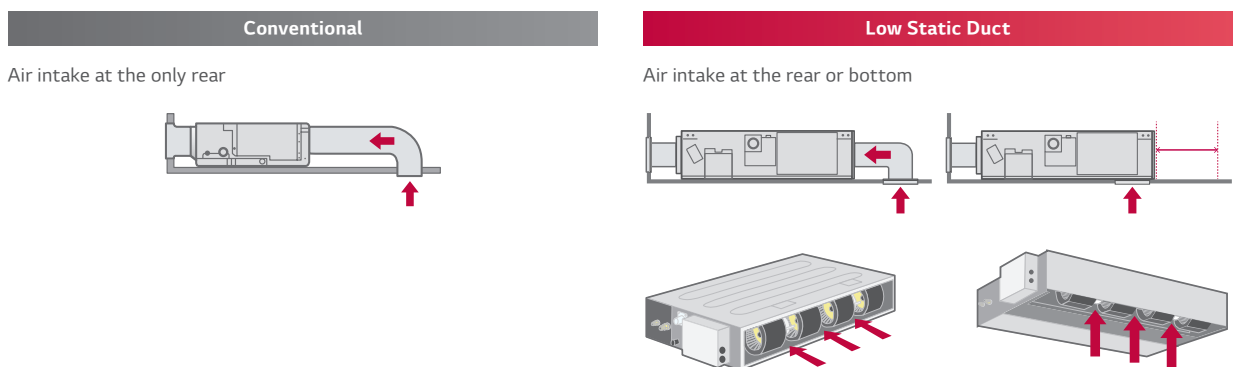
The noise level of low static ducts have been reduced, even though ESP has been increased.



		CL09F N50	CL12F N50	CL18F N60	CL24F N30
Sound Pressure (High / Medium / Low)	dB(A)	35 / 30 / 27	35 / 30 / 27	34 / 31 / 29	39 / 35 / 32

## Flexible Installation (Low Static Pressure Model)

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



**COMPACT INVERTER (R32)**

**MID STATIC PRESSURE**  
- CM18F / CM24F / UM30F / UM36F

**UUA1 ULO    UUB1 U20    UUC1 U40**



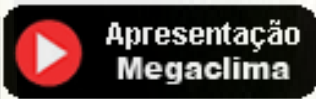
LG participates in the ECP programme for EUROVENT AC program.  
Check ongoing validity of certification  
: [www.eurovent-certification.com](http://www.eurovent-certification.com)

COMBINATION			18	24	30	36
Capacity	Cooling	Min. / Rated / Max. kW	1.8 / 5.0 / 5.6	2.7 / 6.8 / 7.5	3.0 / 7.5 / 8.3	3.8 / 9.5 / 10.5
	Heating	Min. / Rated / Max. kW	2.2 / 5.5 / 6.7	3.0 / 7.4 / 8.5	3.2 / 8.0 / 8.8	4.3 / 10.8 / 11.5
Power Input (Set)	Cooling	Min. / Rated / Max. kW	0.35 / 1.67 / 1.92	0.50 / 2.34 / 2.81	0.50 / 2.57 / 3.08	0.60 / 3.16 / 3.86
	Heating	Min. / Rated / Max. kW	0.32 / 1.58 / 1.77	0.40 / 2.17 / 2.82	0.50 / 2.25 / 2.93	0.60 / 3.03 / 3.48
Running Current	Cooling	Rated A	7.4	10.3	11.0	14.0
	Heating	Rated A	7.0	9.7	9.7	13.4
EER / COP		kWh / kWh	3.00 / 3.50	2.91 / 3.41	2.92 / 3.56	3.01 / 3.57
SEER / SCOP		kWh / kWh	6.1 / 3.8	5.8 / 4.1	5.6 / 3.9	5.9 / 4.0
Pdesign	Cooling @ 35°C	kW	5	6.8	7.5	9.5
	Heating @ -10°C	kW	2.8	4.1	4.3	5.5
Seasonal Energy Label	Cooling / Heating	-	A++ / A	A+ / A+	A+ / A	A+ / A+
Annual Energy Consumption	Cooling / Heating	kWh	287 / 1,032	410 / 1,400	469 / 1,544	564 / 1,924
Dehumidification Rate		l/h	1.2	2.5	2.6	3.2
ODU Sound Pressure Level	Cooling / Heating	Rated dB(A)	49 / 52	48 / 53	50 / 54	54 / 56
ODU Sound Power Level	Cooling	Rated dB(A)	65	65	67	70
Piping Connections	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)
	Connections Method	-	Flared	Flared	Flared	Flared
Operation Range (Outdoor)	Cooling	Min. / Max. °C	-10 / 50	-10 / 48	-10 / 48	-20 / 50
	Heating	Min. / Max. °C	-10 / 18	-15 / 18	-15 / 18	-15 / 18
<b>INDOOR</b>			<b>CM18F N10</b>	<b>CM24F N10</b>	<b>UM30F N10</b>	<b>UM36F N20</b>
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Input (IDU)		H / M / L W	150 / 130 / 110	180 / 150 / 130	220 / 200 / 180	183 / 134 / 101
Air Flow Rate		H / M / L m <sup>3</sup> /min	16.5 / 14.5 / 13	18 / 16.5 / 14.5	22 / 20 / 18	32 / 28 / 24
Dimensions	Body	W x H x D mm	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	1,250 x 270 x 700
Weight	Body	kg	24.6	24.6	26.2	38.5
Sound Pressure Level	Cooling	H / M / L dB(A)	34 / 32 / 30	35 / 34 / 32	37 / 35 / 34	36 / 34 / 33
Sound Power Level	Cooling	Max. dB(A)	59	60	62	60
Piping Connections	Drain (Natural Drainage)	O.D. / I.D. mm	Ø25.4 / 19.4	Ø25.4 / 19.4	Ø25.4 / 19.4	Ø25.4 / 19.4
	Drain (Using Drain Pump)	O.D. / I.D. mm	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0	Ø32.0 / 26.0
<b>OUTDOOR</b>			<b>UUA1 ULO</b>	<b>UUB1 U20</b>	<b>UUC1 U40</b>	
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	
Circuit Breaker		Min. A	15	20	25	
Power Supply Cable (Included Earth)		No x mm <sup>3</sup>	3C x 1.5	3C x 2.5	3C x 2.5	
Dimensions	Net	W x H x D mm	770 x 545 x 288	870 x 650 x 330	950 x 834 x 330	
Weight	Net	kg	33.3	44.5	57.7	
Compressor	Type	-	Twin Rotary	Twin Rotary	Twin Rotary	
	Type	-	R32	R32	R32	
Refrigerant	GWP (Global Warming Potential)	-	675	675	675	
	Precharged Amount	kg	1	1.2	1.9	
	t-CO <sub>2</sub> eq	-	0.675	0.81	1.283	
	Additional Charge (After 7.5m)	g/m	20	40	40	
Fan	Air Flow Rate	Rated m <sup>3</sup> /min x No.	28 x 1	50 x 1	58 x 1	
Total Piping Length		Min. / Max. m	5 / 30	5 / 35	5 / 50	
Piping Elevation	IDU - ODU	Max. m	30	30	30	

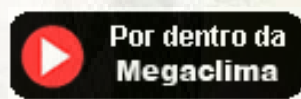


## *30 Anos na climatização e tratamento de ar*

video 2"



video 7"



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