

ceiling concealed duct

Hidden in the ceiling, this product is suitable for applications that require floor level or individual level air conditioning for buildings where there are many rooms or halls, such as restaurants, concert halls and hotels. Installation is not hindered by the location of lighting fixtures or room structure, and interior renovation is made easy with the installation of various ventilation diffusers.



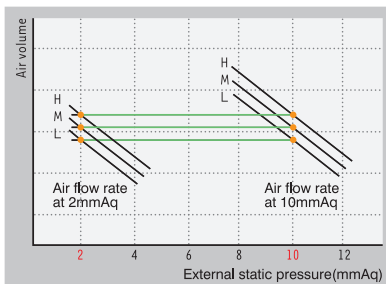
E.S.P: External Static Pressure

Always air volume and sound kept as design regardless of E.S.P change using this technology, you can

- Optimize Duct work Installation
- Keep Capacity & Sound level as desired
- Simplify model numbers

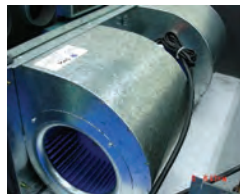
The Phase control motor Technology gives benefit of saving money to Installer. Desired Air flowrate is obtained by controlling the phase of motor while installing the product and this makes your duct work system flexible.

*E.S.P is easily controlled by remote controller.

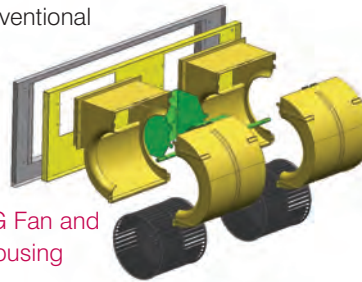


Quiet Operation & Easy Service

A lightweight plastic blower and housing makes air conditioning operation quiet and backup servicing more convenient. The new fan housing can be easily dismantled for convenient servicing and maintenance. The fan motor can be removed without the need to remove the complete fan direct assembly.



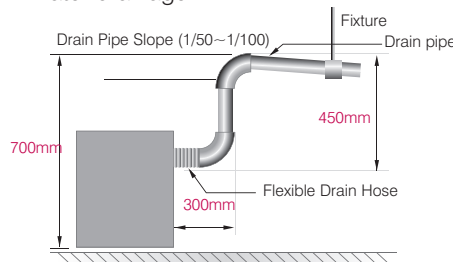
conventional



LG Fan and Housing

High Head Drain Pump

Auxiliary Drain Pump automatically drains water. A standard drain-head height of up to 700mm is possible, creating the ideal solution for perfect water drainage.



(Accessory: ABDPG)

Weekly Program

The operator can set an On/Off reservation of the air conditioner for a period of one week.

LCD Wired Remote Controller

- 24-Hour ON/ OFF Timer in 1 hour intervals
- TEST RUN Mode
- Self-Diagnosis function
- 3-Step Fan Speed selection
- Operation Indication
- Room Temperature Display
- Only 20mm thick

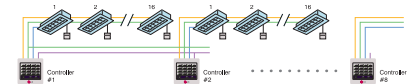


Central Controller

Operation Summary

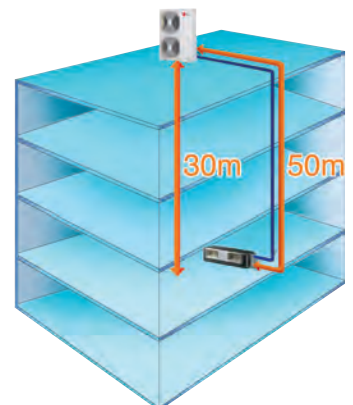
LG units come with advanced control options, take for instance the Central Controller. Designed for the commercial application, where multiple Air Conditioning units have been installed.

You can control or fault find up to 16~2048 Air Conditioning units (via 8 separate controllers) individually or all together.



Long Distance, High Elevation Piping

Our LG Air Conditioners (Cassette and Concealed duct model) are possible to be installed a long distance (Max 50m) that is included High Elevation (30m)



ceiling concealed duct

Heat Pump Non Inverter

UB18 / UB24 / UB30 UB36 / UB48 / UB60



Specification

Indoor Unit

			UB18 NHC	UB24 NHD	UB30 NGD	UB36 NGD	UB48 NRD	UB60 NRD	
Nominal Capacity (Rated)	Cooling	Btu/h	18,000	22,179	27,300	34,100	46,700	50,800	
		kw	5.28	6.5	8.00	10.0	13.70	14.90	
	Heating	Btu/h	19,800	26,410	30,700	37,500	54,600	59,700	
		kw	5.8	7.4	9.00	11.0	16.00	17.50	
Nominal Input (Rated)	Cooling	kw	1.88	2.49	3.60	4.00	5.84	6.30	
		Heating	kw	2.06	2.60	3.20	3.60	5.10	5.00
Running Current	Cooling /Heating	A	0.92	0.92	1.34	1.42	3.65	3.65	
		Power Suppl	Ø/V/Hz	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50
EER	Cooling	kw/kw	2.81	2.61	2.22	2.50	2.35	2.37	
COP	Heating	kw/kw	2.82	2.85	2.81	3.06	3.14	3.50	
Operational Temperature Range (Indoor)	Cooling	°C	-5 ~ 43	-5 ~ 43	-5 ~ 43	-5 ~ 43	-5 ~ 43	-5 ~ 43	
		Heating	°C	-10 ~ 24	-10 ~ 24	-10 ~ 24	-10 ~ 24	-10 ~ 24	-10 ~ 24
Air Flow Rate (H/M/L)		CMM	16.5/14.5/13	18/16.5/14	26.5/23/20	32/29/26	40/35/30	50/45/40	
		CFM	583/512/459	636/583/494	936/812/706	1130/1024/918	1413/1236/1059	1766/1413/1236	
Sound Level (H/M/L)		dB(A) ±3	36/34/32	38/36/34	34/38/35	42/39/36	44/42/40	46/44/42	
Dehumidification Rate		l/h	2.0	2.5	3.3	4.0	6.0	6.5	
Dimensions (WxHxD)	Body	mm(inch)	880*280*450(34.6*10.2*17.7)	880*280*450(34.6*10.2*17.7)	1180*298*450(46.5*11.7*17.7)	1180*298*450(46.5*11.7*17.7)	1230*380*590(48.4*15.0*23.2)	1230*380*590(48.4*15.0*23.2)	
		kg(lbs)	35(77.2)	35(77.2)	38(84)	38(84)	60(132)	62(137)	
Piping Connections	Liquid	mm(inch)	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	
		Gas	mm(inch)	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
		Drain (OD/ID)	mm	32/25	32/25	32/25	32/25	32/25	32/25
ECA Compliant			N	N	N	N	N	N	

Outdoor Unit

			UU18 UEC	UU24 UED	UU30 UED	UU37 UED	UU48 U3D	UU60 U3D
Compressor	Type		Rotary	Rotary	Rotary	Scroll	Scroll	Scroll
Refrigerant Charge	Charge	g(oz)	1300(45.90)	1950(68.9)	1870(66.0)	2450(86.4)	3300(116.4)	3500(123.4)
	Type		R410A	R410A	R410A	R410A	R410A	R410A
Fan	Discharge	Side/Top	Side Discharge	Side Discharge	Side Discharge	Side Discharge	Side Discharge	Side Discharge
Noise Level	Sound Press,1m	dB(A) ±3	52	52	53	52	55	55
Dimensions	W*H*D	mm(inch)	870*655*320(34.3*25.8*12.6)	870*808*320(34.3*31.8*12.6)	870*808*320(34.3*31.8*12.6)	870*1060*320(34.2*41.7*12.6)	950*1380*330(37.4*54.3*13.0)	950*1380*330(37.4*54.3*13.0)
Net Weight	Outdoor	kg(lbs)	52(114.6)	60(132.2)	64(141)	85(187)	105(231)	105(231)
Piping connection	Liquid	mm(inch)	6.35 (1/4)	9.52(3/8)	9.52(3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
		Gas	mm(inch)	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
Power Supply Cable(Includes earth)	No.*mm2		3x2.5	3x2.5	3x3.5	4x2.5	4x2.5	4x2.5
Interunit Cable(Includes earth)	No.*mm2		4x0.75	4x0.75	4x0.75	4x0.75	4x0.75	4x0.75
Max. Piping Length/Elevation	m		50/30	40/30	50/30	50/30	50/30	50/30
Power Supply	ø,V, Hz		1,220~240,50	1,220~240,50	1,220~240,50	3,380~415,50	3,380~415,50	3,380~415,50
Running Current	Cooling/Heating	A	8.6/9.4	11.4/12.6	17.2/16.3	7.5/7.7	6.5/6.4	6.9/6.7
Air Circulation	CMM(CFM)		53(1872)	53(1872)	53(1872)	32(1130)*2	55(1942)*2	55(1942)*2
Additional Refrigerant Charge	g/m		35	45	45	45	50	50
Fuse Sizes Amps			16A	16A	25A	10A	16A	16A



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

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ceiling concealed duct DC inverter

UB18 / UB24 / UB30 UB36 / UB48 / UB60



Specification

Indoor Unit

		UB18 NHC	UB24 NHD	UB30 NGD	UB36 NGD	UB42 NRD	UB48 NRD	UB60 NRD
Nominal Capacity (Min~Rating~Max)	Cooling	Btu/h 7,200~18,000~19,800	9,680~24,200~26,620	10,920~27,300~30,030	13,640~34,100~37,500	17,060~42,650~46,910	19,100~47,770~52,540	20,200~50,500~55,550
		kw 2.11~5.28~5.81	2.84~7.1~7.81	3.2~8.0~8.8	4.0~10.0~11.0	5.0~12.5~13.8	5.6~14.0~15.4	5.92~14.8~16.3
	Heating	Btu/h 8,120~20,300~22,330	10,920~27,300~30,030	12,260~30,700~33,770	15,280~38,200~42,020	19,108~47,770~52,540	22,520~56,300~61,930	23,200~58,000~63,800
		kw 2.38~5.95~6.54	3.2~8.0~8.8	3.6~9.0~9.9	4.48~11.2~12.3	5.6~14.0~15.4	6.6~16.5~18.2	6.8~17.0~18.7
Nominal Input (Rating)	Cooling	kw 1.75	2.62	2.84	3.51	4.15	4.60	5.27
	Heating	kw 1.85	2.75	2.49	3.49	3.88	4.57	4.71
Running Current	Cooling /Heating	A 0.92	0.92	1.34	1.42	3.65	3.65	3.65
Power Supply		Ø/V/Hz 1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50
EER	Cooling	kw/kw 3.02	2.71	2.82	2.85	3.01	3.04	2.81
COP	Heating	kw/kw 3.22	2.91	3.61	3.21	3.61	3.61	3.61
Operational Temperature Range (Indoor)	Cooling	°C -10 ~ 46	-10 ~ 46	-10 ~ 46	-10 ~ 43	-10 ~ 43	-10 ~ 43	-10 ~ 43
	Heating	°C -15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24
Air Flow Rate (H/M/L)		CMM 16.5/14.5/13	18/16.5/14	26.5/23/20	32/29/26	36/32/38	40/35/30	50/45/40
		CFM 583/512/459	636/583/494	936/812/706	1130/1024/918	1260/1120/980	1413/1236/1059	1766/1413/1236
Sound Level (H/M/L)		dB(A)±3 36/34/32	38/36/34	34/38/35	42/39/36	42/40/38	44/42/40	46/44/42
Dehumidification Rate		l/h 2.0	2.5	3.3	4.0	5.0	6.0	6.5
Dimensions (WxHxD)	Body	mm(inch) 880*260*450(34.6*10.2*17.7)	880*260*450(34.6*10.2*17.7)	1180*298*450(46.5*11.7*17.7)	1180*298*450(46.5*11.7*17.7)	1230*380*590(48.4*15.0*23.2)	1230*380*590(48.4*15.0*23.2)	1230*380*590(48.4*15.0*23.2)
	Weight	kg(lbs) 35(77.2)	35(77.2)	38(84)	38(84)	60(132)	60(132)	62(137)
Piping Connections	Liquid	mm(inch) 6.35 (1/4)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas	mm(inch) 12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	Drain(OD/ID)	mm 32/25	32/25	32/25	32/25	32/25	32/25	32/25
ECA Compliant		N	N	N	N	Y	Y	N

Outdoor Unit

		UU18W UEC	UU24W UED	UU30W UED	UU36W UED	UU42W U3D	UU48W U3D	UU60W U3D
Compressor	Type	e - Scroll	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
Refrigerant Charge	Charge	g(oz) 1500(52.91)	2000(70.6)	2000(70.6)	2500(88.2)	3600(127)	3600(127)	3600(127)
	Type	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Fan	Discharge	Side/Top	Side Discharge	Side Discharge	Side Discharge	Side Discharge	Side Discharge	Side Discharge
Noise Level(H/L)	Sound Press,1m	dB(A)±3 51 /45	52/46	52/46	56/52	55/51	55/51	55/51
Dimensions	W*H*D	mm(inch) 870*655*320(34.3*25.8*12.6)	870*808*320(34.3*31.8*12.6)	870*1060*320(34.3*41.7*12.6)	870*1060*320(34.3*41.7*12.6)	950*1380*330(37.4*54.3*13.0)	950*1380*330(37.4*54.3*13.0)	950*1380*330(37.4*54.3*13.0)
Net Weight	Outdoor	kg(lbs) 52(114.6)	60(132)	60(132)	75(165.3)	103(227)	103(227)	103(227)
Piping connection	Liquid	mm(inch) 6.35 (1/4)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas	mm(inch) 12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
Power Supply Cable(Includes earth)	No.*mm2	3 x 2.5	3 x 2.5	3 x 2.5	3 x 2.5	3 x 3.5	3 x 3.5	3 x 3.5
Interunit Cable(Includes earth)	No.*mm2	4 x 0.75	4 x 0.75	4 x 0.75	4 x 0.75	4 x 0.75	4 x 0.75	4 x 0.75
Max. Piping Length/Elevation	m	50/30	50/30	50/30	50/30	75/30	75/30	75/30
Power Supply	ø,V, Hz	1,220~240,50	1,220~240,50	1,220~240,50	1,220~240,50	1,220~240,50	1,220~240,50	1,220~240,50
Running Current	Cooling/Heating	A 7.5/10.6	10.0/10.7	12.0/13.0	14.0/14.2	17.7/16.7	20.5/20.5	24.7/23.5
Air Circulation	CMM(CFM)	50(1766)	58(2048)	58(2048)	32(1130) x 2	55(1942) x 2	55(1942) x 2	55(1942) x 2
Additional Refrigerant Charge	g/m	25	35	35	50	40	40	40
Fuse Sizes Amps		10A	16A	20A	20A	25A	32A	40A

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