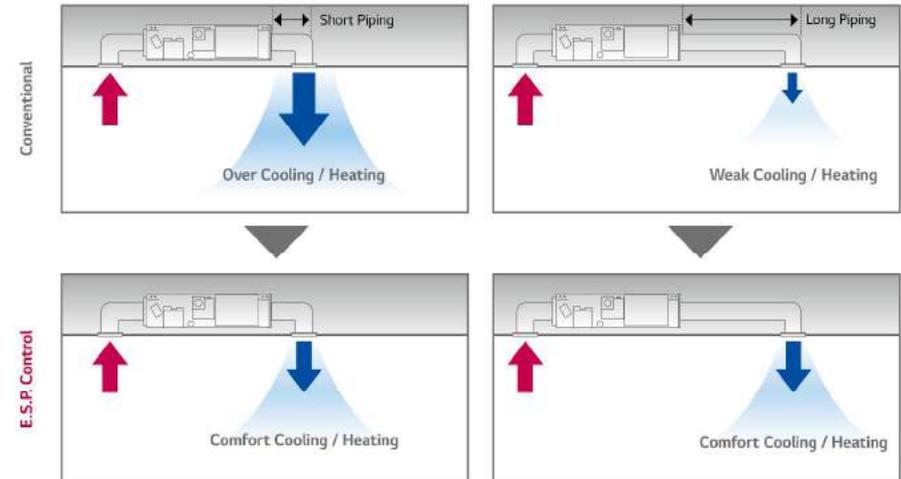


# CEILING CONCEALED DUCT



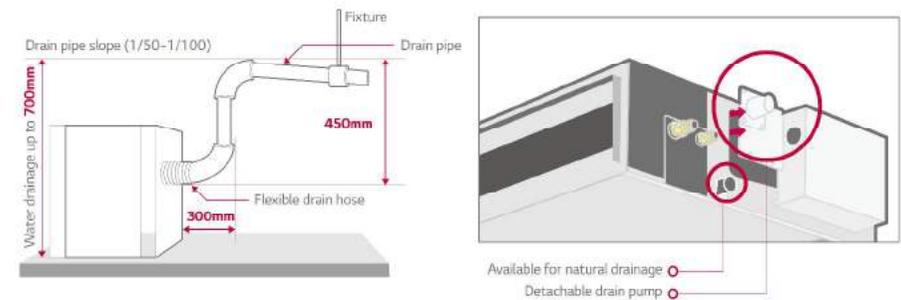
## E.S.P. (External Static Pressure) Control

E.S.P. control function can make air volume controlled easily with remote controller. The BLDC motor can control fan speed and air volume regardless of the external static pressure. No additional accessories are necessary to control air flow.



## High Head Drain Pump

High head drain pump automatically drains water up to 200mm of drain-head height. It provides perfect solution for water drainage. (18, 24kBtu Low Static Duct Drain pump excluded)

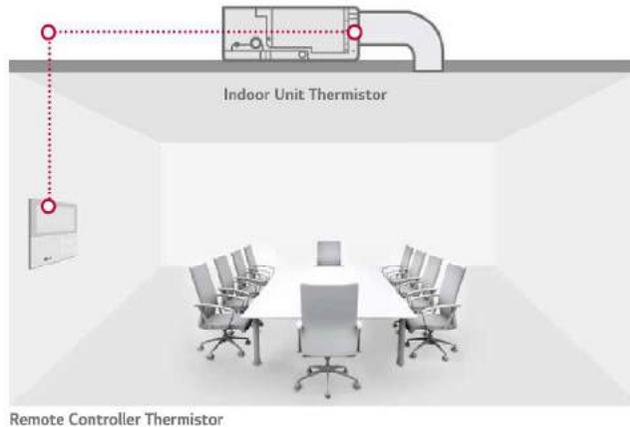


# CEILING CONCEALED DUCT

## Two Thermistors Control

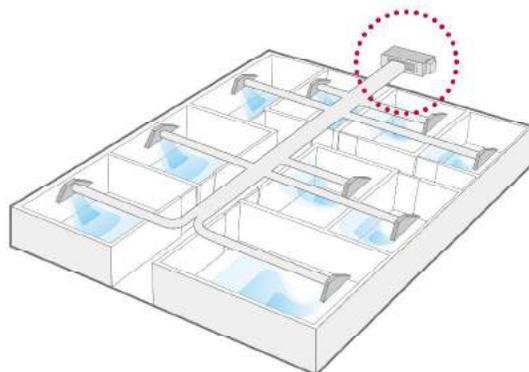
The indoor temperature can be checked using the thermistors in the remote controller as well as from the indoor unit. There may be a significant difference between ceiling and floor air temperature. Two thermistors can optimise indoor air temperature for a more comfortable environment.

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.



## Specifications



				Low Static	
				ABUQ18GL2A0	ABUQ24GL3A0
Set Condition	Outdoor unit	Indoor unit		ABNQ18GL2A0	ABNQ24GL3A0
Capacity	Cooling	Min/Rated/Max	kW	2.00 - 5.00 - 5.75	2.81 - 7.00 - 8.00
			Btu/h	6,800 - 17,100 - 19,600	9,690 - 23,900 - 27,300
Power Input	Cooling	Rated	kW	1.33	2.32
Running Current	Cooling	Rated	A	6.70	10.10
EER			Btu/h · W	11.01	10.30

Indoor Unit				ABNQ18GL2A0	ABNQ24GL3A0
Power Supply			V, Ø, Hz	220-240, 1, 50 220, 1, 60	220-240, 1, 50 220, 1, 60
Running Current (Set)			A	6.70	10.10
Dimensions	Body	W × H × D	mm	35-7/16 × 7-15/32 × 27-9/16	43-5/16 × 7-15/32 × 27-9/16
Net Weight	Body		kg (lbs)	(2 × 11 × 18) × 1	(3 × 11 × 18) × 1
Sound Pressure Level		H / M / L	dB(A)	36 / 34 / 31	39 / 35 / 32
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)
		Drain (O.D. / I.D.)	mm	Ø 25.4 / 20.4	Ø 25.4 / 20.4
Power and Communication Cable (included Earth)			No. × mm <sup>2</sup> (AWG)	4C × 0.75 (18)	4C × 0.75 (18)

Outdoor Unit				ABUQ18GL2A0	ABUQ24GL3A0
Power Supply			V, Ø, Hz	220-240, 1, 50 220, 1, 60	220-240, 1, 50 220, 1, 60
Wiring Connections	Power Supply Cable (included Earth)		No. × mm <sup>2</sup> (AWG)	3C × 2.5 (12)	3C × 2.5 (12)
Dimensions		W × H × D	mm	770 × 545 × 288	870 × 555 × 320
Net Weight			kg (lbs)	34.0 (75.0)	44.0 (97.0)
Compressor	Type		-	Twin Rotary	Twin Rotary
Refrigerant	Type		-	R410A	R410A
Refrigerant Oil	Type		-	FUC68D	FUC68D
Heat Exchanger	#1 (Row × Column × Fins per inch) × No.		-	(2 × 24 × 20) × 1	(2 × 30 × 21) × 1
	Type		-	Propeller	Propeller
Fan	Air Flow Rate		m <sup>3</sup> /min × No.	50 × 1	50 × 1
Fan Motor	Type		-	BLDC	BLDC
Sound Pressure Level	Cooling	Rated	dB(A)	47	48
Piping Connections		Outer Dia.	mm (inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
		Outer Dia.	mm (inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)
Piping Length		Max.	m (ft)	30 (98.4)	30 (98.4)
Maximum Height Difference	Outdoor Unit - Indoor Unit	Max.	m (ft)	15 (49.2)	30 (98.4)
Operation Range (Outdoor Temperature)	Cooling	Min. - Max.	°CDB (°FDB)	-5 (23.0) - 48 (118.4)	-5 (23.0) - 48 (118.4)

# CEILING CONCEALED DUCT

## Specifications



\* Wired Remote Controller Included

### Mid Static

Set Condition	Outdoor unit		kW	ABUQ30GGLA1	ABUQ36GGLA1
	Indoor unit			ABNQ30GGLA1	ABNQ36GGLA1
Capacity	Cooling	Min/Rated/Max		4.40 - 8.90 - 11.72	5.27 - 10.60 - 12.31
		Btu/h		15,000 - 30,000 - 40,000	18,000 - 36,000 - 42,000
Power Input	Cooling	Rated	kW	2.72	3.30
Running Current	Cooling	Rated	A	12.50	15.20
EER			Btu/h · W	11.03	10.91

Indoor Unit				ABNQ30GGLA1	ABNQ36GGLA1
Power Supply		V, Ø, Hz		220-240, 1, 50 220, 1, 60	220-240, 1, 50 220, 1, 60
Running Current (Set)		A		12.50	15.20
Dimensions	Body	W × H × D	mm	46-15/32 × 11-23/32 × 17-23/32	46-15/32 × 11-23/32 × 17-23/32
				kg (lbs)	(3 × 10 × 19) × 1
Sound Pressure Level	H / M / L	Liquid	mm (inch)	42 / 39 / 36	42 / 39 / 36
				Gas	Ø 9.52 (3/8)
Piping connection	Gas	mm (inch)	Ø	Ø 15.88 (5/8)	Ø 15.88 (5/8)
				Drain (O.D. / I.D.)	mm
Power and Communication Cable (included Earth)		No. × mm <sup>2</sup> (AWG)		4C × 0.75 (18)	4C × 0.75 (18)

Outdoor Unit				ABUQ30GGLA1	ABUQ36GGLA1
Power Supply		V, Ø, Hz		220-240, 1, 50 220, 1, 60	220-240, 1, 50 220, 1, 60
Wiring Connections	Power Supply Cable (included Earth)	No. × mm <sup>2</sup> (AWG)		3C × 2.5 (12)	3C × 2.5 (12)
		W × H × D		950 × 834 × 330	950 × 834 × 330
Net Weight		kg (lbs)		66.0 (142.3)	67.0 (147.7)
Compressor	Type	-		Twin Rotary	Twin Rotary
Refrigerant	Type	-		R410A	R410A
Refrigerant Oil	Type	-		PVC68D	PVC68D
Heat Exchanger	= 1 (Row × Column × Fins per inch) × No.	-		(2 × 40 × 21) × 1	(2 × 40 × 21) × 1
		Type	-		Propeller
Fan	Air Flow Rate	m <sup>3</sup> /min × No.		58 × 1	58 × 1
Fan Motor	Type	-		BLDC	BLDC
Sound Pressure Level	Cooling	Rated	dB(A)	48	48
				Liquid	Outer Dia.
Piping Connections	Gas	Outer Dia.	mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
				Max.	m (ft)
Maximum Height Difference	Outdoor Unit - Indoor Unit	Max.	m (ft)	30 (98.4)	30 (98.4)
Operation Range (Outdoor Temperature)	Cooling	Min. - Max.	°CDB (°FDB)	-5 (23.0) - 48 (118.4)	-5 (23.0) - 48 (118.4)

## Specifications



\* Wired Remote Controller Included

### Mid Static

Set Condition	Outdoor unit		kW	ABUQ36LRLA1	ABUQ42LRLA1	ABUQ48LRLA1	ABUQ54LRLA1
	Indoor unit			ABNQ36LRLA1	ABNQ42LRLA1	ABNQ48LRLA1	ABNQ54LRLA1
Capacity	Cooling	Min/Rated/Max		4.00 - 10.00 - 11.43	5.00 - 12.30 - 13.20	5.57 - 14.10 - 14.95	6.33 - 15.80 - 16.60
		Btu/h		13,600 - 36,000 - 39,000	17,000 - 42,000 - 45,000	19,000 - 48,000 - 51,000	21,600 - 53,900 - 56,600
Power Input	Cooling	Rated	kW	3.04	3.72	4.66	5.23
Running Current	Cooling	Rated	A	5.90	6.00	7.80	9.20
EER			Btu/h · W	9.89	11.29	10.30	10.30

Indoor Unit				ABNQ36LRLA1	ABNQ42LRLA1	ABNQ48LRLA1	ABNQ54LRLA1
Power Supply		V, Ø, Hz		220-240, 1, 50 220, 1, 60	220-240, 1, 50 220, 1, 60	220-240, 1, 50 220, 1, 60	220-240, 1, 50 220, 1, 60
Running Current (Set)		A		5.90	6.00	7.80	9.20
Dimensions	Body	W × H × D	mm	46-15/32 × 11-23/32 × 23-7/32	48-7/16 × 14-31/32 × 23-7/32	48-7/16 × 14-31/32 × 23-7/32	48-7/16 × 14-31/32 × 23-7/32
				kg (lbs)	(3 × 10 × 19) × 1	(3 × 16 × 18) × 1	(3 × 16 × 18) × 1
Sound Pressure Level	H / M / L	Liquid	mm (inch)	42 / 39 / 36	46 / 44 / 42	46 / 44 / 42	46 / 44 / 42
				Gas	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Piping connection	Gas	mm (inch)	Ø	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 19.05 (3/4)
				Drain (O.D. / I.D.)	mm	Ø 25.4 / 20.4	Ø 25.4 / 20.4
Power and Communication Cable (included Earth)		No. × mm <sup>2</sup> (AWG)		4C × 0.75 (18)	4C × 0.75 (18)	4C × 0.75 (18)	4C × 0.75 (18)

Outdoor Unit				ABUQ36LRLA1	ABUQ42LRLA1	ABUQ48LRLA1	ABUQ54LRLA1
Power Supply		V, Ø, Hz		380-415, 3, 50 380, 3, 60	380-415, 3, 50 380, 3, 60	380-415, 3, 50 380, 3, 60	380-415, 3, 50 380, 3, 60
Wiring Connections	Power Supply Cable (included Earth)	No. × mm <sup>2</sup> (AWG)		5C × 2.5 (12)	5C × 2.5 (12)	5C × 2.5 (12)	5C × 2.5 (12)
		W × H × D		950 × 834 × 330	950 × 834 × 330	950 × 834 × 330	950 × 1,380 × 330
Net Weight		kg (lbs)		67.0 (147.7)	67.0 (147.7)	67.0 (147.7)	96.0 (211.6)
Compressor	Type	-		Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Refrigerant	Type	-		R410A	R410A	R410A	R410A
Refrigerant Oil	Type	-		PVC68D	PVC68D	PVC68D	PVC68D
Heat Exchanger	= 1 (Row × Column × Fins per inch) × No.	-		(2 × 40 × 21) × 1	(3 × 40 × 21) × 1	(3 × 40 × 21) × 1	(3 × 33 × 21) × 1
		Type	-		Propeller	Propeller	Propeller
Fan	Air Flow Rate	m <sup>3</sup> /min × No.		60 × 1	60 × 1	60 × 1	55 × 2
Fan Motor	Type	-		BLDC	BLDC	BLDC	BLDC
Sound Pressure Level	Cooling	Rated	dB(A)	48	52	56	56
				Liquid	Outer Dia.	mm (inch)	Ø 9.52 (3/8)
Piping Connections	Gas	Outer Dia.	mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 19.05 (3/4)
				Max.	m (ft)	50 (164.0)	50 (164.0)
Maximum Height Difference	Outdoor Unit - Indoor Unit	Max.	m (ft)	30 (98.4)	30 (98.4)	30 (98.4)	30 (98.4)
Operation Range (Outdoor Temperature)	Cooling	Min. - Max.	°CDB (°FDB)	-5 (23.0) - 48 (118.4)	-5 (23.0) - 48 (118.4)	-5 (23.0) - 48 (118.4)	-5 (23.0) - 48 (118.4)