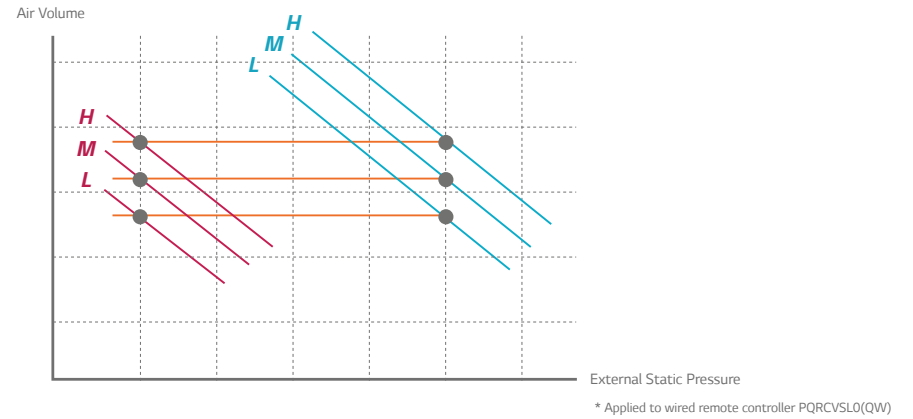


# CEILING CONCEALED DUCTS



## E.S.P. CONTROL

The BLDC motor and low noise fan means that air volume can be easily controlled by using the wired remote controller. The BLDC motor can control the fan speed and air volume regardless of the external static pressure(E.S.P.) With E.S.P control no additional accessories are needed to adjust the air flow and the energy consumption of the fan is also reduced.

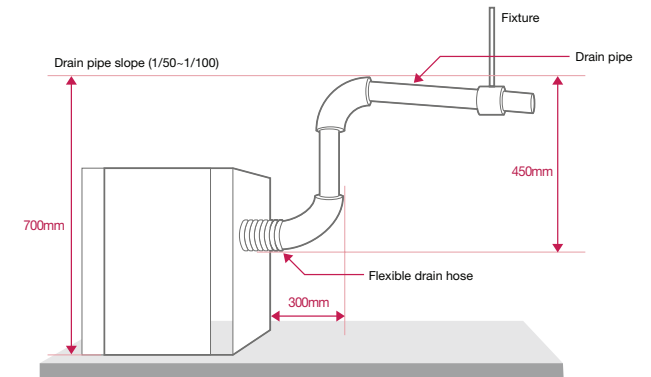


## HIGH HEAD DRAIN PUMP

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



Accessory (ABDPG)



# CEILING CONCEALED DUCTS

## 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.

<PQRCVSLOQW>



Remote Controller Thermistor

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

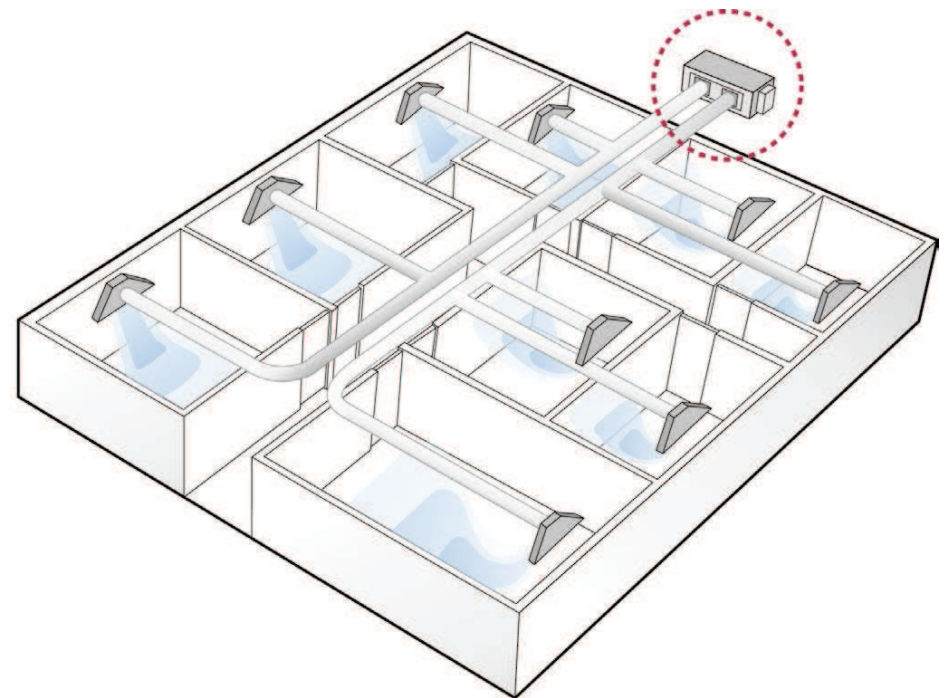


Indoor Unit Thermistor



## OPERATION FOR MULTIPLE ROOMS

BLDC motor delivers low indoor noise levels by using the high efficiency turbo fan. Anti vibration design reduces resonance noise.



HIGH STATIC DUCT

CB18 / CB24 / UB30



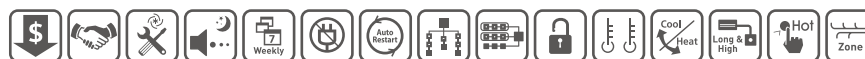
\* CB18 / CB24 are compatible with SCAC and MULTI.

Indoor				CB18 NH2	CB24 NH2	UB30 NG2
Capacity	Cooling	Min/Nom/Max	kW	2.0 / 5.0 / 5.4	2.8 / 7.1 / 7.8	3.2 / 8.0 / 8.8
	Heating	Min/Nom/Max	kW	2.4 / 6.0 / 6.6	3.2 / 8.0 / 8.8	3.6 / 9.0 / 9.9
Low Temperature Capacity	Heating -7°C	Max	kW	5.4	7.2	8.1
	Cooling	Nom	kW	1.54	2.36	2.28
Power Input (Set)	Heating	Nom	kW	1.66	2.49	2.49
		Min/Nom/Max(ESP 2.5mAq)	W	50 / 70 / 70	50 / 80 / 80	70 / 110 / 110
Power Input (Indoor)		Min/Nom/Max(ESP 8.0mAq)	W	90 / 120	100 / 140	110 / 160
	Running Current	Cooling/Heating	A	6.7 / 7.2	10.3 / 10.8	9.9 / 10.8
Power Supply		ØV/Hz		1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.21	3.01	3.51
COP				3.61	3.21	3.61
SEER				4.61	5.11	5.61
SCOP				3.81	3.81	3.81
Pdesign (@-10°C)			kW	3.8	6.0	7.0
Seasonal Energy Label	Cooling/Heating			B / A	A / A	A+ / A
Annual Energy Consumption	Cooling/Heating		kWh	377 / 1,400	487 / 2,211	500 / 2,579
	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 / 25	32 / 25	32 / 25
Air Flow Rate		High/Medium/Low	m³/min	16.5 / 14.5 / 13.0	18.0 / 16.5 / 14.0	26.5 / 23.0 / 20.0
Sound Pressure	Cooling	High/Medium/Low	dBA	36 / 34 / 32	36 / 35 / 33	36 / 35 / 33
Sound Power	Cooling	Max	dBA	60	61	61
Dehumidification Rate			l/h	2.0	2.5	3.3
Dimensions	Body	WxHxD	mm	882 x 260 x 450	882 x 260 x 450	1,182 x 298 x 450
Net Weight	Body		kg	26.0	26.0	33.0
External Static Pressure		Min-Max	mmAq(Pa)	2.5-8(25-78)	2.5-8(25-78)	2.5-10(25-98)
<b>Outdoor</b>				<b>UU18W UE2</b>	<b>UU24W U42</b>	<b>UU30W U42</b>
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate		Nom	m³/min	50	58	58
Sound Pressure	Cooling	Nom	dBA	48	48	48
	Heating	Nom	dBA	51	52	52
Sound Power	Cooling	Max	dBA	60	62	65
Dimensions	WxHxD		mm	870 x 655 x 320	950 x 834 x 330	950 x 834 x 330
Net Weight			kg	46.0	60.0	60.0
Refrigerant	Type			R410A	R410A	R410A
	Charge		g	1,400	2,000	2,000
	Additional Charge (after 7.5m)		g/m	20	40	40
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			ØV/Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Power Supply Cable			No.xmm²	3C x 2.5	3C x 2.5	3C x 2.5
Transmission Cable			No.xmm²	4C x 0.75	4C x 0.75	4C x 0.75
Circuit Breaker			A	20	30	30
Piping Length Total		Min-Max	m	5-40	5-50	5-50
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. Capacities are based on the following conditions: Cooling - Indoor Temperature 27°C DB / 19°C WB - Outdoor Temperature 35°C DB / 24°C WB  
3. Annual energy consumption: based on average use of 500 running hours per year at nominal condition  
Heating - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB

HIGH STATIC DUCT

UB36 / UB48 / UB60



Indoor				UB36 NG2	UB48 NR2	UB60 NR2
Capacity	Cooling	Min/Nom/Max	kW	4.0 / 10.0 / 11.0	5.6 / 14.0 / 15.4	5.9 / 14.8 / 16.3
	Heating	Min/Nom/Max	kW	4.5 / 11.2 / 12.3	6.6 / 16.4 / 18.2	6.8 / 16.8 / 18.7
Low Temperature Capacity	Heating -7°C	Max	kW	10.0	14.8	15.2
	Cooling	Nom	kW	3.06	4.36	5.09
Power Input (Set)	Heating	Nom	kW	3.20	4.42	4.53
		Min/Nom/Max(ESP 40mAq)	W	110 / 160 / 160	120 / 190 / 190	190 / 300 / 300
Power Input (Indoor)		Min/Nom/Max(ESP 100mAq)	W	160 / 220	190 / 280	300 / 430
	Running Current	Cooling/Heating	A	4.4 / 4.6	6.3 / 6.4	7.3 / 6.5
Power Supply		ØV/Hz		1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
EER				3.27	3.21	2.91
COP				3.50	3.71	3.71
SEER				4.71	-	-
SCOP				3.81	-	-
Pdesign (@-10°C)			kW	7.6	-	-
Seasonal Energy Label	Cooling/Heating			B / A	-	-
Annual Energy Consumption	Cooling/Heating		kWh	745 / 2,800	-	-
	Liquid		mm(inch)	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)
	Drain	O.D./I.D.	mm	32 / 25	32 / 25	32 / 25
Air Flow Rate		High/Medium/Low	m³/min	32.0 / 29.0 / 26.0	40.0 / 35.0 / 30.0	50.0 / 45.0 / 40.0
Sound Pressure	Cooling	High/Medium/Low	dBA	42 / 39 / 36	44 / 42 / 40	46 / 44 / 42
Sound Power	Cooling	Max	dBA	61	65	67
Dehumidification Rate			l/h	4.0	6.0	6.5
Dimensions	Body	WxHxD	mm	1,182 x 298 x 450	1,230 x 380 x 590	1,230 x 380 x 590
Net Weight	Body		kg	38.0	52.0	49.0
External Static Pressure		Min-Max	mmAq(Pa)	4-10(39-98)	5-12(49-118)	6-14(59-137)
<b>Outdoor</b>				<b>UU37W UO2</b>	<b>UU49W U32</b>	<b>UU61W U32</b>
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary
Airflow Rate		Nom	m³/min	90	110	110
Sound Pressure	Cooling	Nom	dBA	53	52	52
	Heating	Nom	dBA	54	54	54
Sound Power	Cooling	Max	dBA	66	68	71
Dimensions	WxHxD		mm	950 x 1,170 x 330	950 x 1,380 x 330	950 x 1,380 x 330
Net Weight			kg	85.0	96.0	96.0
Refrigerant	Type			R410A	R410A	R410A
	Charge		g	2,800	3,400	3,400
	Additional Charge (after 7.5m)		g/m	40	40	40
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			ØV/Hz	3 / 380-415 / 50	3 / 380-415 / 50	3 / 380-415 / 50
Power Supply Cable			No.xmm²	5C x 2.5	5C x 2.5	5C x 2.5
Transmission Cable			No.xmm²	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)

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3. Annual energy consumption: based on average use of 500 running hours per year at nominal condition  
Heating - Indoor Temperature 20°C DB / 15°C WB - Outdoor Temperature 7°C DB / 6°C WB