

VLOD

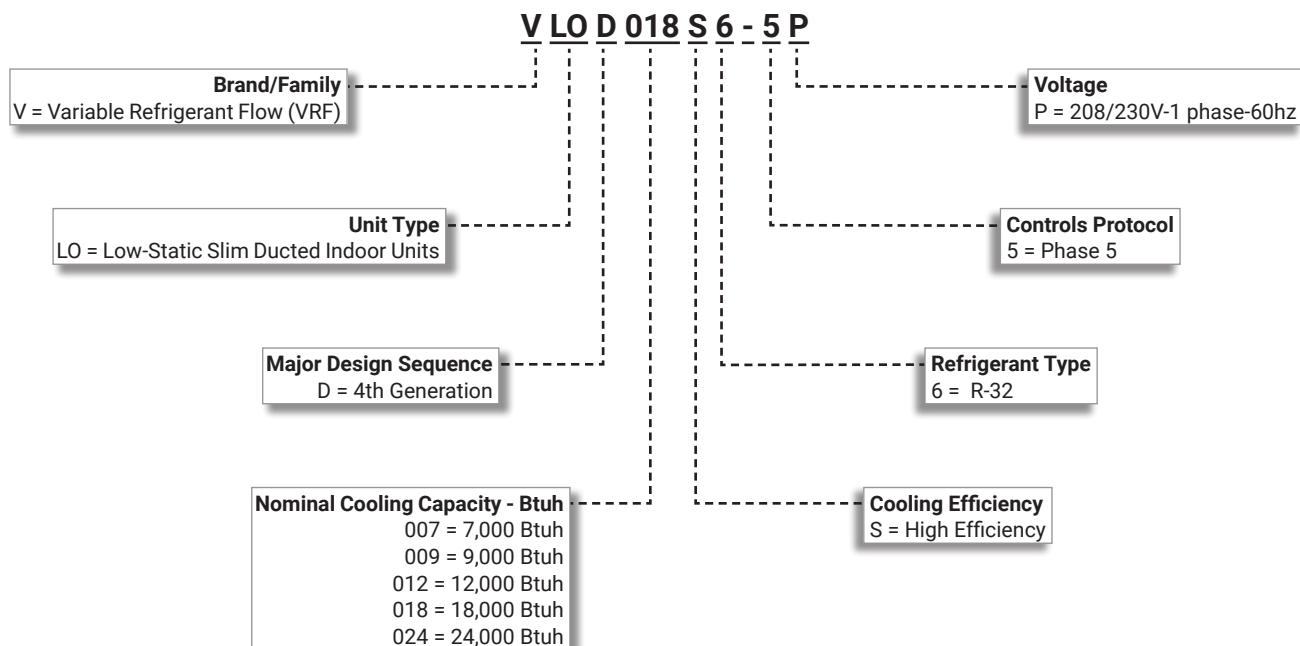
Low-Static Concealed Slim Ducted Indoor Units | **R-32** | 60Hz

7,000 to 24,000 Btuh

COMMERCIAL PRODUCT SPECIFICATIONS (EHB)



MODEL NUMBER IDENTIFICATION



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2. Specification

VLOD Slim Duct

Model Name				VLOD007S6-5P	VLOD009S6-5P	VLOD012S6-5P
Power Supply			Φ, #, V, Hz	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity	Cooling	Btu/h	7,500	9,500	12,000
			US RT	0.62	0.79	1.00
		Heating	Btu/h	8,500	10,500	13,500
			US RT	0.71	0.87	1.12
Power	Power Input	Cooling	W	35	39	50
		Heating	W	35	39	50
	Current Input	Cooling	A	0.30	0.33	0.42
		Heating	A	0.30	0.33	0.42
	Current	MCA	A	0.52	0.57	0.73
		MOP	A	15	15	15
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Quantity		EA	3	3	3
	Air Flow Rate	High / Med / Low	CMM	12.0 / 10.0 / 8.0	13.0 / 11.0 / 10.0	14.5 / 13.0 / 11.0
			CFM	424 / 353 / 283	459 / 388 / 353	512 / 459 / 388
			l/s	200 / 167 / 133	217 / 183 / 167	242 / 217 / 183
	External Pressure	Min/Std/Max	mmAq	0 / 1 / 4	0 / 1 / 4	0 / 1 / 4
			Pa	0 / 9.81 / 39.23	0 / 9.81 / 39.23	0 / 9.81 / 39.23
			In Wg	0 / 0.04 / 0.16	0 / 0.04 / 0.16	0 / 0.04 / 0.16
	Fan Motor	Type		-	BLDC	BLDC
Output		W × n	84 × 1	84 × 1	84 × 1	
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	12.70 (1/2)	12.70 (1/2)	12.70 (1/2)
	Heat insulation		-	Both liquid & gas pipes	Both liquid & gas pipes	Both liquid & gas pipes
Wiring Connections	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
	Communication	Min.	mm²	0.75	0.75	0.75
			AWG	18	18	18
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound Level	Sound Pressure Level	High / Med / Low	dB(A)	26/24/21	27/25/23	29/27/24
	Sound Power Level	Cooling	dB(A)	43	44	46
Dimensions	Net Weight		kg	22.5	22.5	22.5
			lbs	49.6	49.6	49.6
	Shipping Weight		kg	26.2	26.2	26.2
			lbs	57.8	57.8	57.8
	Net Dimensions (W×H×D)		mm	1,100 x 199 x 440	1,100 x 199 x 440	1,100 x 199 x 440
			inch	43.31 x 7.83 x 17.32	43.31 x 7.83 x 17.32	43.31 x 7.83 x 17.32
	Shipping Dimensions (W×H×D)		mm	1,351 x 280 x 544	1,351 x 280 x 544	1,351 x 280 x 544
			inch	53.19 x 11.02 x 21.42	53.19 x 11.02 x 21.42	53.19 x 11.02 x 21.42
Casing	Material		-	Steel	Steel	Steel
Additional Accessories	Drain pump	External Model	-	-	-	-
		Internal Model	-	Built in	Built in	Built in
		Max. lifting Height / Displacement	in / gal/h	29.53 / 6.34	29.53 / 6.34	29.53 / 6.34
	Air Filter		-	-	-	-

• Specification may be subject to change without prior notice.

1) Performances are based on the following test conditions.

- Cooling : Indoor temperature : 80°F(26.7°C) DB, 67°F(19.4°C) WB, Outdoor temperature : 95°F(35°C) DB, 75°F(23.9°C) WB

- Heating : Indoor temperature : 70°F(21.1°C) DB, 60°F(15.6°C) WB, Outdoor temperature : 47°F(8.3°C) DB, 43°F(6.1°C) WB

- Equivalent refrigerant piping length 7.5m(24.6ft), Level differences : 0m(0ft)

2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

4) Select wire size based on the value of MCA

2. Specification

VLOD Slim Duct

Model Name				VLOD018S6-5P	VLOD024S6-5P
Power Supply			Φ, #, V, Hz	1,208-230,60	1,208-230,60
Mode			-	HEAT PUMP	HEAT PUMP
Performance	Capacity	Cooling	Btu/h	18,000	24,000
			US RT	1.50	2.00
		Heating	Btu/h	20,000	27,000
			US RT	1.67	2.25
Power	Power Input	Cooling	W	72	80
		Heating	W	72	80
	Current Input	Cooling	A	0.60	0.68
		Heating	A	0.60	0.68
	Current	MCA	A	0.98	1.09
		MOP	A	15	15
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al
		Tube	-	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile
Fan	Type		-	Sirocco Fan	Sirocco Fan
	Quantity		EA	3	3
	Air Flow Rate	High / Med / Low	CMM	18.0 / 16.0 / 15.0	19.0 / 17.0 / 15.0
			CFM	636 / 565 / 530	671 / 600 / 530
			l/s	300 / 267 / 250	317 / 283 / 250
	External Pressure	Min/Std/Max	mmAq	0 / 1 / 4	0 / 1 / 4
			Pa	0 / 9.81 / 39.23	0 / 9.81 / 39.23
			In Wg	0 / 0.04 / 0.16	0 / 0.04 / 0.16
Fan Motor	Type		-	BLDC	BLDC
	Output		W × n	84 × 1	84 × 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
			Φ, mm (inch)	6.35 (1/4)	9.52 (3/8)
	Gas Pipe		Type	Flare connection	Flare connection
			Φ, mm (inch)	12.70 (1/2)	15.88 (5/8)
	Heat insulation		-	Both liquid & gas pipes	Both liquid & gas pipes
Wiring Connections	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
	Communication	Min.	mm ²	0.75	0.75
			AWG	18	18
		Remark		-	F1, F2
Refrigerant	Type		-	R32	R32
	Control Method		-	EEV INCLUDED	EEV INCLUDED
Sound Level	Sound Pressure	High / Med / Low	dB(A)	34/32/30	35/33/30
	Level				
Dimensions	Sound Power Level	Cooling	dB(A)	51	52
	Net Weight		kg	22.5	22.5
			lbs	49.6	49.6
	Shipping Weight		kg	26.2	26.2
			lbs	57.8	57.8
	Net Dimensions (W×H×D)		mm	1,100 x 199 x 440	1,100 x 199 x 440
			inch	43.31 x 7.83 x 17.32	43.31 x 7.83 x 17.32
	Shipping Dimensions (W×H×D)		mm	1,351 x 280 x 544	1,351 x 280 x 544
			inch	53.19 x 11.02 x 21.42	53.19 x 11.02 x 21.42
Casing	Material		-	Steel	Steel
Additional Accessories	Drain pump	External Model	-	-	-
		Internal Model	-	Built in	Built in
		Max. lifting Height / Displacement	in / gal/h	29.53 / 6.34	29.53 / 6.34
	Air Filter		-	-	-

• Specification may be subject to change without prior notice.

1) Performances are based on the following test conditions.

- Cooling : Indoor temperature : 80°F(26.7°C) DB, 67°F(19.4°C) WB, Outdoor temperature : 95°F(35°C) DB, 75°F(23.9°C) WB

- Heating : Indoor temperature : 70°F(21.1°C) DB, 60°F(15.6°C) WB, Outdoor temperature : 47°F(8.3°C) DB, 43°F(6.1°C) WB

- Equivalent refrigerant piping length 7.5m(24.6ft), Level differences : 0m(0ft)

2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

4) Select wire size based on the value of MCA

3. Summary Table

VLOD Slim Duct

Performance Characteristics

Model Code	Net Weight (lbs)	Fan Speed	Nominal Capacity (Btu/h)			Airflow (CFM)	Sound Pressure (dBA)	Sound Power (dBA)	Static Pressure (Min/Std/Max)[inAq]
			Cooling	Sensible	Heating				
VLOD007S6-5P	49.6	High	7,500	5,200	8,500	424	26	43	0/0.04/0.16
		Mid	5,400	4,100	7,800	353	24	-	
		Low	4,200	3,300	6,900	283	21	-	
VLOD009S6-5P	49.6	High	9,500	6,600	10,500	459	27	44	0/0.04/0.16
		Mid	6,800	5,200	9,700	388	25	-	
		Low	5,600	4,500	9,200	353	23	-	
VLOD012S6-5P	49.6	High	12,000	8,400	13,500	512	29	46	0/0.04/0.16
		Mid	8,700	6,700	12,800	459	27	-	
		Low	6,800	5,600	11,800	388	24	-	
VLOD018S6-5P	49.6	High	18,000	12,600	20,000	636	34	51	0/0.04/0.16
		Mid	12,700	9,900	18,900	565	32	-	
		Low	10,200	8,600	18,300	530	30	-	
VLOD024S6-5P	49.6	High	24,000	16,800	27,000	671	35	52	0/0.04/0.16
		Mid	16,700	13,200	25,500	600	33	-	
		Low	13,300	11,300	24,600	530	30	-	

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model Code	Power Supply (Φ, #, V, Hz)	Power Input (W)	Current Input (A)	MCA (A)	MOP (A)	FLA (A)
VLOD007S6-5P	1,2,208-230,60	35.0	0.30	0.52	15	0.42
VLOD009S6-5P	1,2,208-230,60	39.0	0.33	0.57	15	0.46
VLOD012S6-5P	1,2,208-230,60	50.0	0.42	0.73	15	0.58
VLOD018S6-5P	1,2,208-230,60	72.0	0.60	0.98	15	0.78
VLOD024S6-5P	1,2,208-230,60	80.0	0.68	1.09	15	0.87

NOTE

- MCA : Minimum circuit amperes
- MOP: Maximum Overcurrent Protective Device
- FLA: Full load amperes
- Select wire size based on the value of MCA

4. Capacity Table

VLOD Slim Duct

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (°F, DB)	Indoor temperature (°F, DB / WB)													
		57		61		64		67		70		72		75	
		TC Btu/h	SHC Btu/h	TC Btu/h	SHC Btu/h	TC Btu/h	SHC Btu/h	TC Btu/h	SHC Btu/h	TC Btu/h	SHC Btu/h	TC Btu/h	SHC Btu/h	TC Btu/h	SHC Btu/h
VLOD007S6-5P	95	5,200	4,300	6,200	5,000	7,300	5,800	7,500	5,800	8,200	5,800	8,500	5,700	8,900	5,500
VLOD009S6-5P	95	6,600	6,000	7,900	6,700	9,100	7,200	9,500	7,400	10,500	7,500	11,000	7,400	11,300	7,200
VLOD012S6-5P	95	8,500	7,100	9,800	8,100	11,600	8,900	12,000	9,100	13,300	9,200	13,800	9,000	14,200	8,600
VLOD018S6-5P	95	12,700	11,000	14,900	12,600	17,400	13,400	18,000	13,800	19,900	14,000	20,700	13,800	21,400	13,300
VLOD024S6-5P	95	16,900	14,700	19,700	17,000	23,200	17,900	24,000	18,300	26,600	19,200	27,700	18,900	28,600	18,300

Heating

TC : Total Capacity

Model	Outdoor temperature (°F, DB)		Indoor temperature (°F, DB)				
			61	65	70	72	75
	DB	WB	TC Btu/h	TC Btu/h	TC Btu/h	TC Btu/h	TC Btu/h
VLOD007S6-5P	47	43	10,000	9,500	8,500	8,100	7,900
VLOD009S6-5P	47	43	11,400	11,000	10,500	10,100	9,400
VLOD012S6-5P	47	43	14,500	14,400	13,500	12,900	12,100
VLOD018S6-5P	47	43	21,500	21,200	20,000	19,100	17,800
VLOD024S6-5P	47	43	28,900	28,500	27,000	25,800	24,100



NOTE

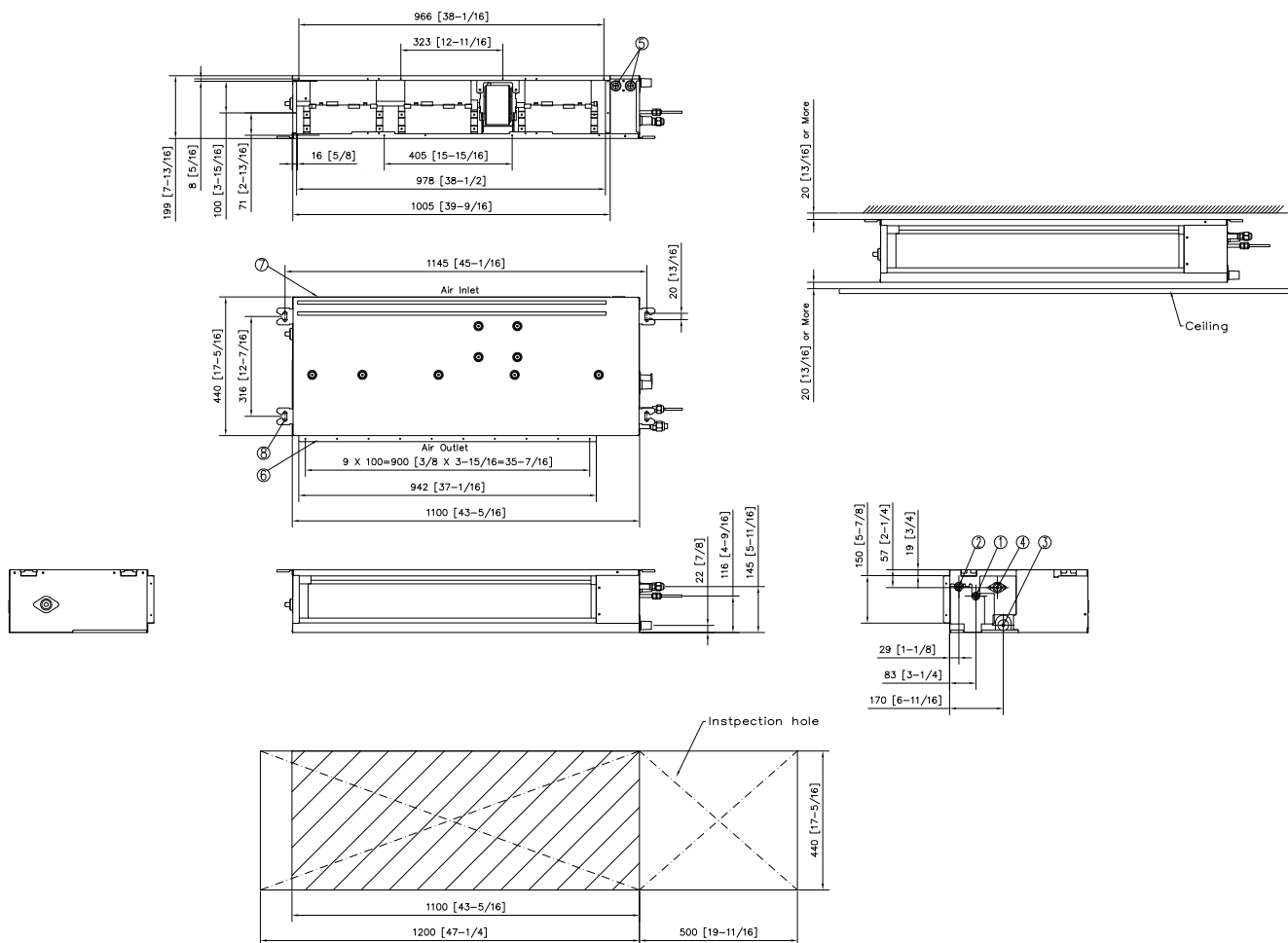
- The performance table shows the average value of each conditions.

5. Dimensional Drawing

VLOD Slim Duct

VLOD007S6-5P, VLOD009S6-5P, VLOD012S6-5P, VLOD018S6-5P, VLOD024S6-5P

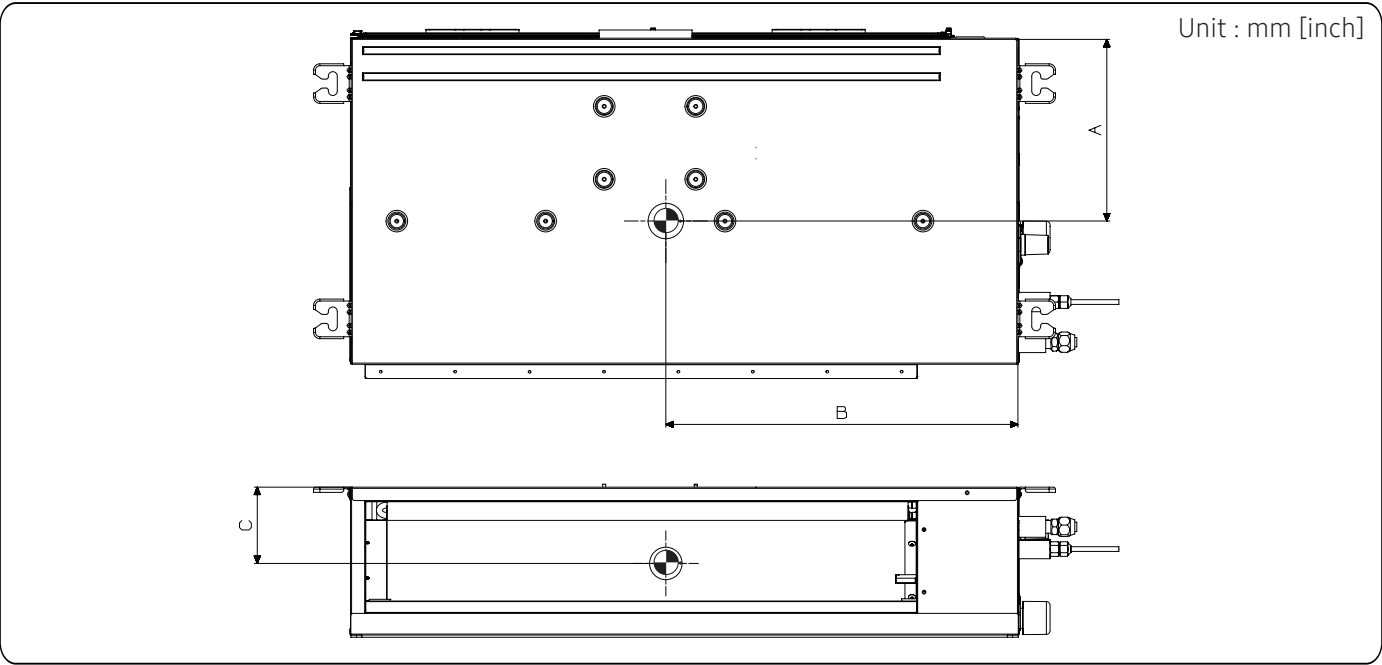
Unit : mm [inch]



No.	Name	Description	
		VLOD007/009/012/018S6-5P	VLOD024S6-5P
1	Liquid pipe connection	Φ 6.35 [1/4]	Φ 9.52 [3/8]
2	Gas pipe connection	Φ 12.7 [1/2]	Φ 15.88 [5/8]
3	Drain pipe connection (Without drain pump)	VP-25(OD32, ID25)	
4	Drain pipe connection (With drain pump)	-	
5	Power & Communication Conduits	-	
6	Air discharge grille flange	-	
7	Return Air Side	-	
8	Hook	-	

6. Center of Gravity

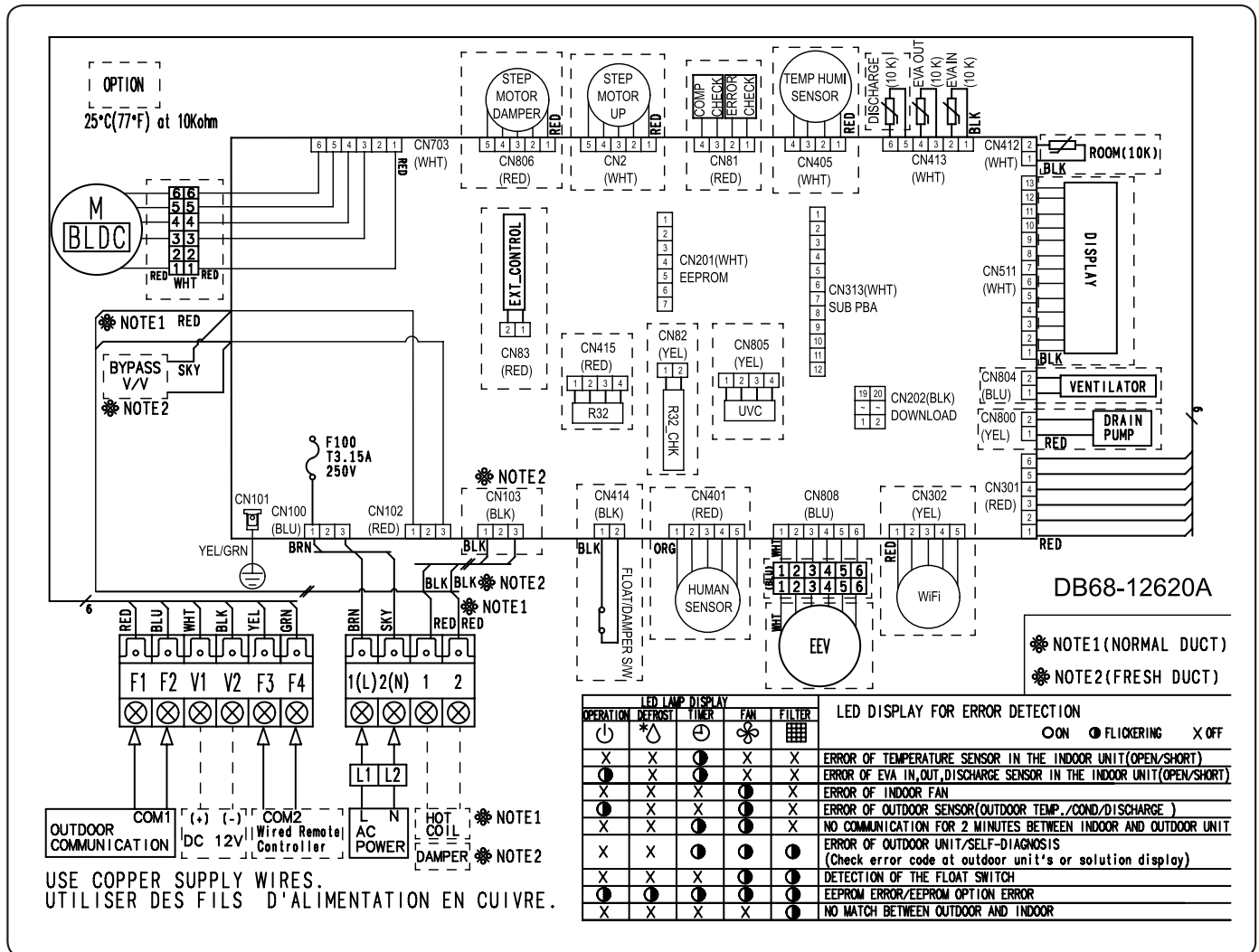
VL0D Slim Duct



A	B	C
240 [9-7/16]	540 [21-1/4]	100 [3-15/16]

7. Electrical Wiring Diagram

VLOD Slim Duct



F100	FUSE	EEV	Electronic Expansion Valve	EVA-IN(10K)	Thermistor EVA IN(10K)
M[BLDC]	Motor (IDU fan)	ROOM(10K)	Thermistor ROOM(10K)	EVA-OUT(10K)	Thermistor EVA OUT(10K)
DISCHARGE(10K)	Thermistor DISCHARGE(10K)				

NOTE

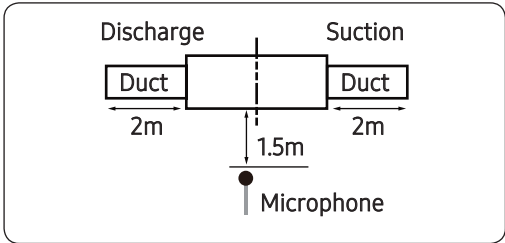
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
BLK: black, RED: red, BLU: blue, WHT: white, YEL: yellow, BRN: brown, SKY: sky blue, GRN: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏏ Protective earth(screw), □ : connector, $\frac{N}{\text{wire}}$: The wire quantity

8. Sound Data

VLOD Slim Duct

Sound Pressure level

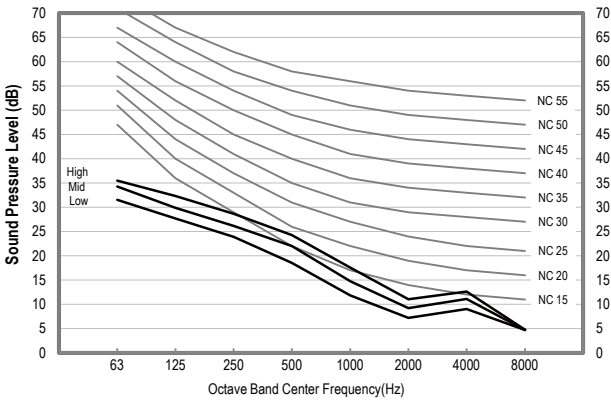
Unit: dB(A)



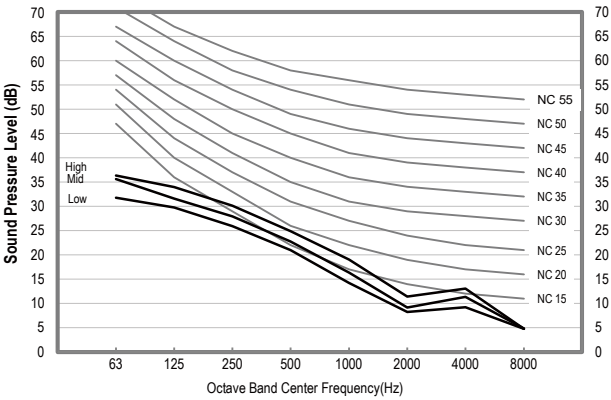
Model	High	Mid	Low
VLOD007S6-5P	26	24	21
VLOD009S6-5P	27	25	23
VLOD012S6-5P	29	27	24
VLOD018S6-5P	34	32	30

- NC Curve

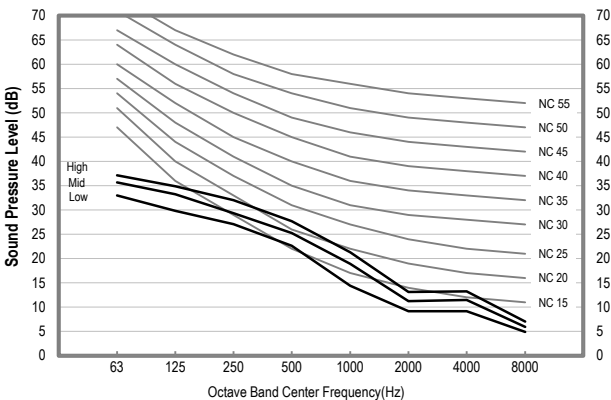
1) VLOD007S6-5P



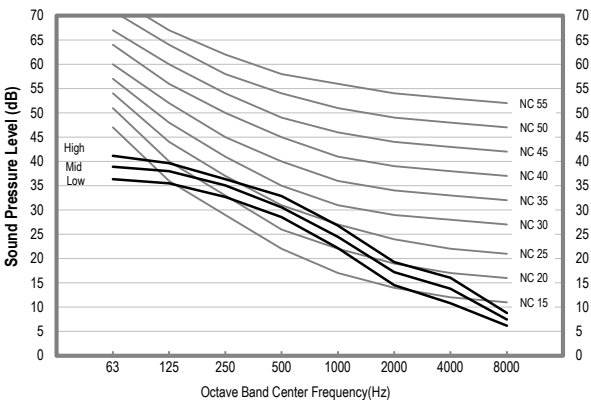
2) VLOD009S6-5P



3) VLOD012S6-5P



4) VLOD018S6-5P



NOTE

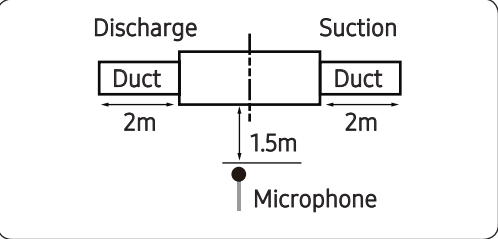
- Specifications may be subject to change without prior notice.
 - Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20μPa

8. Sound Data

VLOD Slim Duct

Sound Pressure level

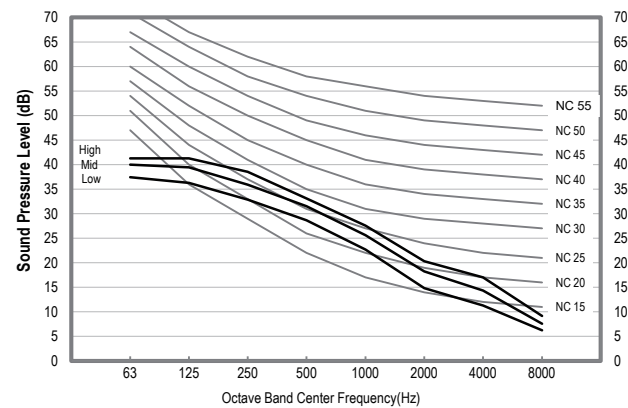
Unit: dB(A)



Model	High	Mid	Low
VLOD024S6-5P	35	33	30

• NC Curve

1) VLOD024S6-5P



NOTE

- Specifications may be subject to change without prior notice.
 - Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20μPa

8. Sound Data

VLOD Slim Duct

Sound Power level

Unit: dB(A)

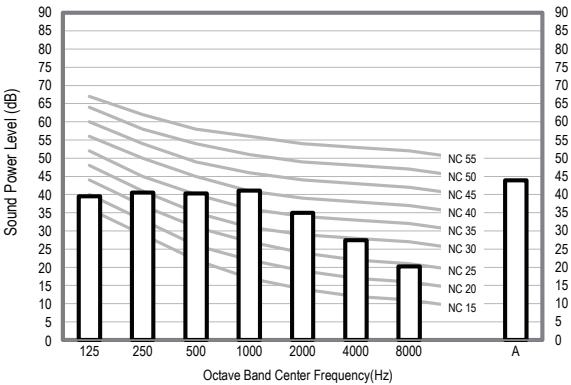
NOTE

- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dB(A) = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.

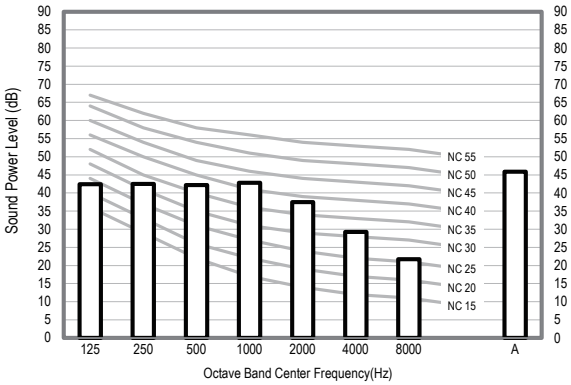
Model	Power
VLOD007S6-5P	43
VLOD009S6-5P	44
VLOD012S6-5P	46
VLOD018S6-5P	51

- NC Curve

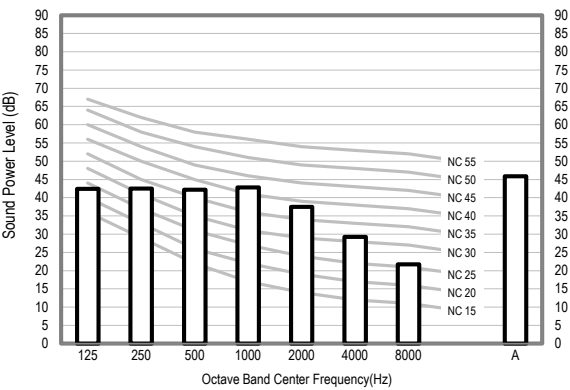
1) VLOD007S6-5P



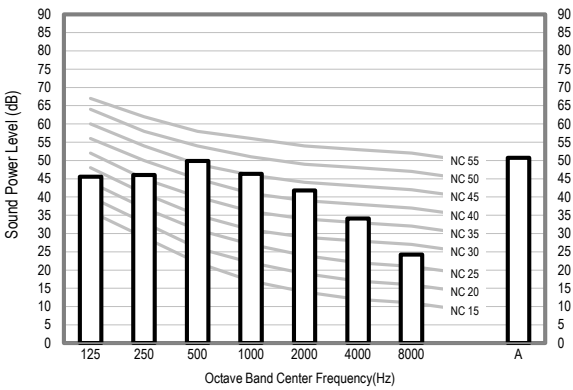
2) VLOD009S6-5P



3) VLOD012S6-5P



4) VLOD018S6-5P



8. Sound Data

VLOD Slim Duct

Sound Power level

Unit: dB(A)

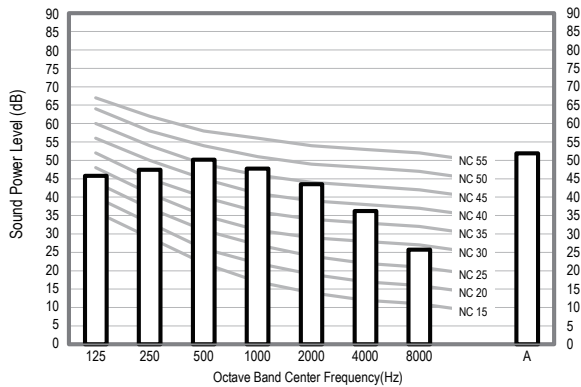
NOTE

- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dB(A) = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.

Model	Power
VLOD024S6-5P	52

- NC Curve

1) VLOD024S6-5P



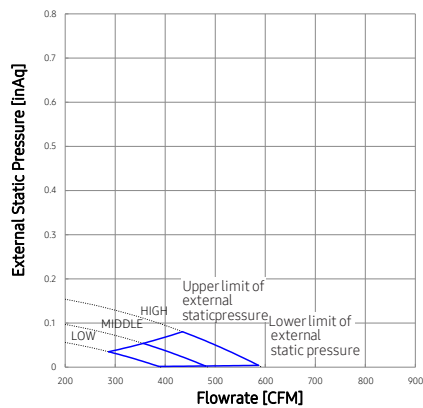
9. Fan Characteristics

VLOD Slim Duct

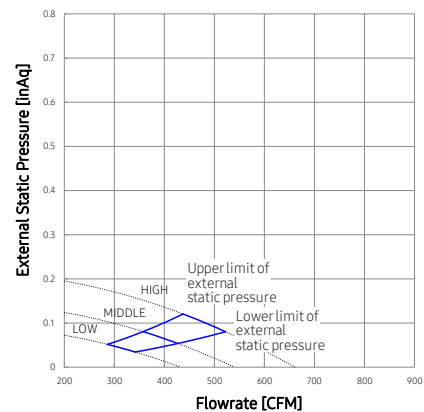
1) VLOD007S6-5P

External Static Pressure(inAq)	Option Code	Air Flow [CFM]		
		High	Mid	Low
0< SP ≤0.08	010054-1C543C-201616-331110	424	353	283

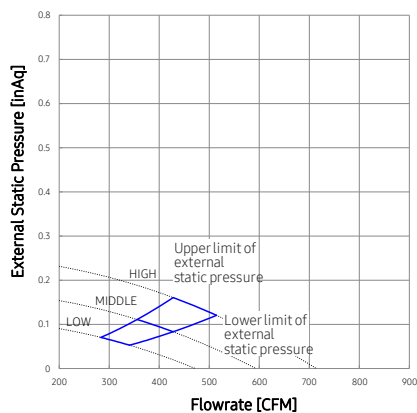
①	External Static Pressure(inAq)	Option Code
	0< SP ≤0.08	010054-1C543C-201616-331110



②	External Static Pressure(inAq)	Option Code
	0.08 < P ≤ 0.12	010054-1C55D5-201616-331110



③	External Static Pressure(inAq)	Option Code
	0.12 < SP ≤ 0.16	010054-1C592A-201616-331110



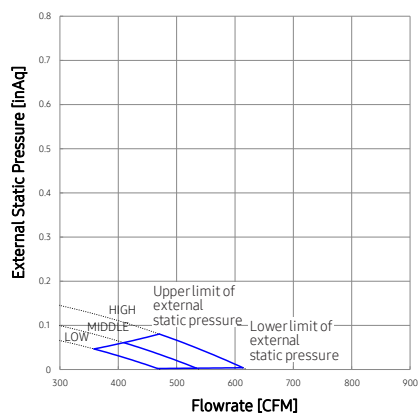
9. Fan Characteristics

VLOD Slim Duct

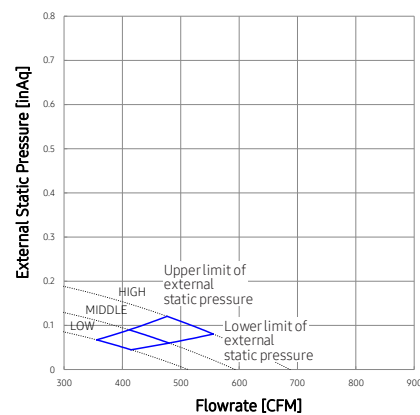
2) VLOD009S6-5P

External Static Pressure _e [inAq]	Option Code	Air Flow [CMM]		
		High	Mid	Low
0 < SP ≤ 0.08	010054-1C545E-201C1C-331110	459	388	353

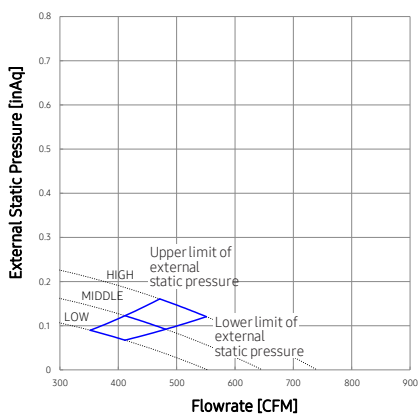
①	External Static Pressure _e [inAq]	Option Code
	0 < SP ≤ 0.08	010054-1C545E-201C1C-331110



②	External Static Pressure _e [inAq]	Option Code
	0.08 < P ≤ 0.12	010054-1C55F6-201C1C-331110



③	External Static Pressure _e [inAq]	Option Code
	0.12 < SP ≤ 0.16	010054-1C594C-201C1C-331110



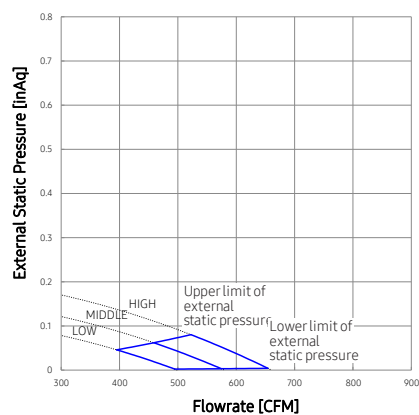
9. Fan Characteristics

VLOD Slim Duct

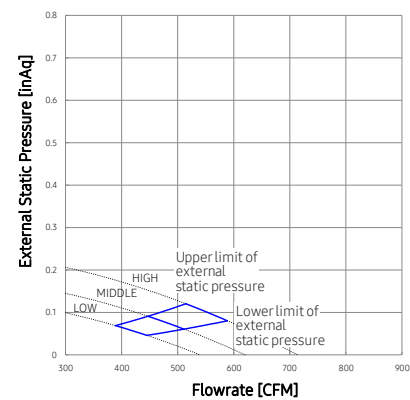
3) VLOD012S6-5P

External Static Pressure _e [inAq]	Option Code	Air Flow [CMM]		
		High	Mid	Low
0 < SP ≤ 0.08	010054-1C5580-202323-331110	512	459	388

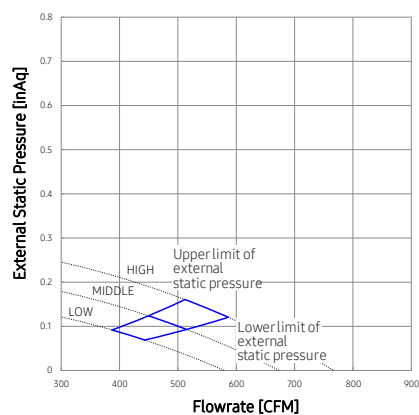
①	External Static Pressure _e [inAq]	Option Code
	0 < SP ≤ 0.08	010054-1C5580-202323-331110



②	External Static Pressure _e [inAq]	Option Code
	0.08 < P ≤ 0.12	010054-1C5918-202323-331110



③	External Static Pressure _e [inAq]	Option Code
	0.12 < SP ≤ 0.16	010054-1C597D-202323-331110



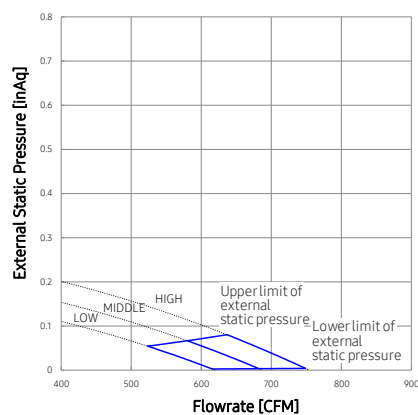
9. Fan Characteristics

VLOD Slim Duct

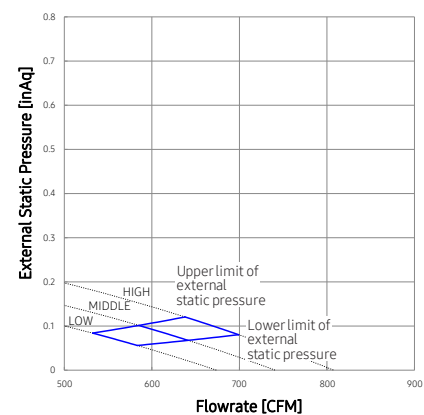
4) VLOD018S6-5P

External Static Pressure(inAq)	Option Code	Air Flow [CMM]		
		High	Mid	Low
0< SP ≤0.08	010054-1C591A-203434-331110	636	565	530

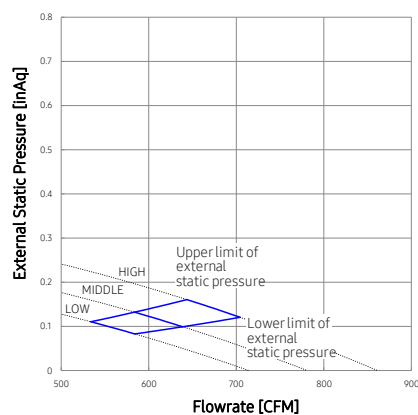
①	External Static Pressure(inAq)	Option Code
	0< SP ≤0.08	010054-1C591A-203434-331110



②	External Static Pressure(inAq)	Option Code
	0.08 < P ≤ 0.12	010054-1C5A92-203434-331110



③	External Static Pressure(inAq)	Option Code
	0.12< SP ≤0.16	010054-1C5AD6-203434-331110



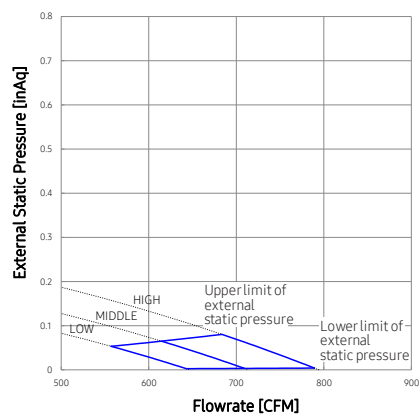
9. Fan Characteristics

VLOD Slim Duct

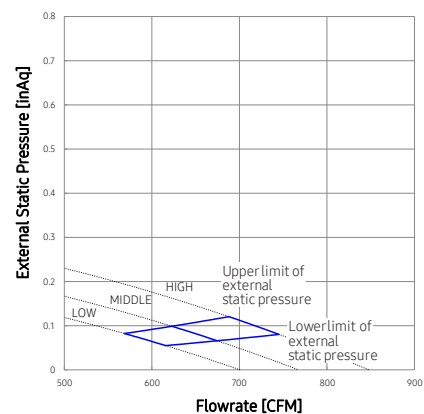
5) VLOD024S6-5P

External Static Pressure(inAq)	Option Code	Air Flow [CMM]		
		High	Mid	Low
0< SP ≤0.08	010054-1C593B-204848-331110	671	600	530

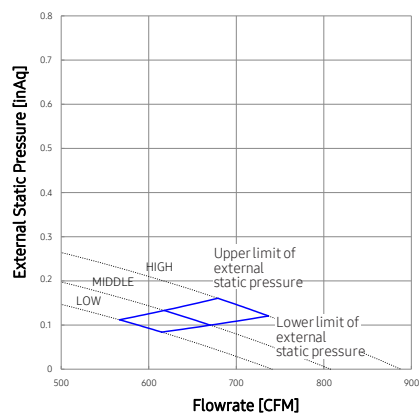
①	External Static Pressure(inAq)	Option Code
	0< SP ≤0.08	010054-1C593B-204848-331110



②	External Static Pressure(inAq)	Option Code
	0.08 < P ≤ 0.12	010054-1C5AB4-204848-331110

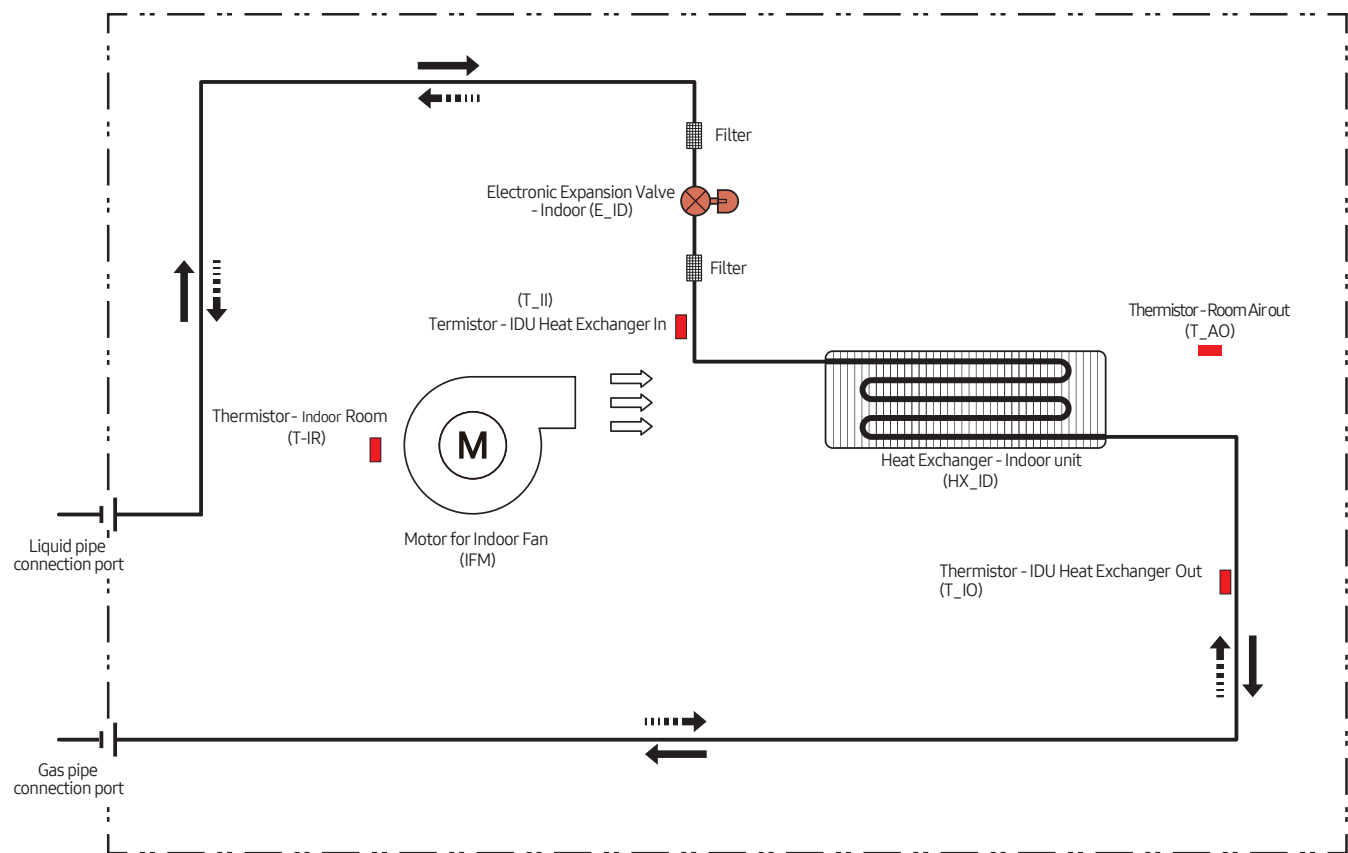


③	External Static Pressure(inAq)	Option Code
	0.12< SP ≤0.16	010054-1C5AF7-204848-331110



10. Piping Diagram

VLOD Slim Duct



Refrigerant flow	
Cooling	Heating

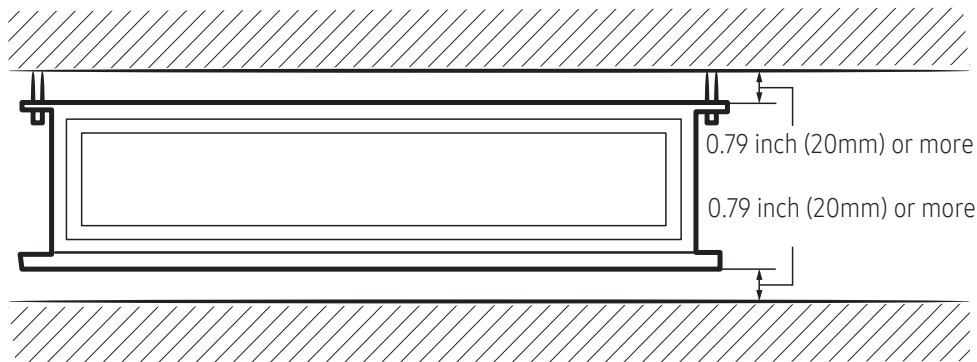
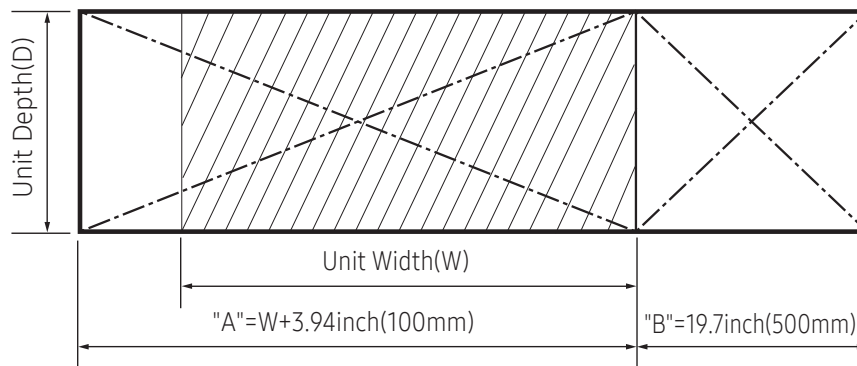
Installation Clearances

VLOD Slim Duct

Space requirements for installation & service

Construction Standard for Inspection Hole

- 1 In case, the ceiling is tex tile, Inspection hole dose not need.
- 2 In case, the ceiling is plaster board, Inspection hole depends on Inside height of the ceiling.
 - a Height is more than 1.64ft(0.5m) : Only "B" [Inspection for PBA] is applied.
 - b Height is less than 1.64ft(0.5m) : Both "A"&"B" are applied.
 - c "A"&"B" are inspection holes.



- You must have 0.79 inch (20mm) or more space between the ceiling and the bottom of indoor unit. Otherwise, the noise from the vibration of indoor unit may bother the user. When the ceiling is under construction, the hole for check-up must be made to take service, clean and repair the unit.
- It is possible to install the unit at an height of between 7.3~8.3ft (2.2~2.5m) from the ground, if the unit has a duct with a well defined lenght [11.81 inch(300 mm) or more], to avoid fan motor blower contact.



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NOTE - Due to Lennox' ongoing commitment to quality, Specifications, Ratings and Dimensions subject to change without notice and without incurring liability. Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury. Installation and service must be performed by a qualified installer and servicing agency.

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