V33D

High-Efficiency Four-Way Cassette Indoor Units| R-32 | 60Hz **6,000 to 48,000 Btuh**

COMMERCIAL
PRODUCT SPECIFICATIONS (EHB)

MODEL NUMBER IDENTIFICATION

V 33 D 012 S 6 - 5 P

Brand/Family
V = Variable Refrigerant Flow (VRF)

Unit Type
33 = High Efficiency Four-Way 360° Cassette Indoor Units

Major Design Sequence
D = 4th Generation

Nominal Cooling Capacity - Btuh
006 = 6000 Btuh
009 = 9000 Btuh
012 = 12,000 Btuh
018 = 18,000 Btuh
024 = 24,000 Btuh
030 = 30,000 Btuh
036 = 36,000 Btuh
048 = 48,000 Btuh

Cooling Efficiency
S = High Efficiency

Refrigerant Type
6 = R-32

Controls Protocol
5 = Phase 5

Voltage
P = 208/230V-1 phase-60hz

Form Number 211236 | January 2025
Supersedes all previous versions

CONTENTS

Specification

V33D Cassette

Model Name				V33D006S6-5P	V33D009S6-5P	V33D012S6-5P
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	6,300	9,000	12,000
			US RT	0.52	0.75	1.00
		Heating	Btu/h	7,100	10,000	13,500
			US RT	0.59	0.83	1.12
Power	Power Input	Cooling	W	20	20	20
		Heating	W	20	20	20
	Current Input	Cooling	A	0.17	0.17	0.17
		Heating	A	0.17	0.17	0.17
	Current	MCA	A	0.40	0.40	0.40
		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		-	Turbo	Turbo	Turbo
	Quantity		EA	1	1	1
	Air Flow Rate	High / Med / Low	CMM	15.5 / 13.0 / 10.0	15.5 / 14.0 / 13.0	15.5 / 14.0 / 13.0
			CFM	547 / 459 / 353	547 / 494 / 459	547 / 494 / 459
			l/s	258 / 217 / 167	258 / 233 / 217	258 / 233 / 217
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output		W × n	65 × 1	65 × 1	65 × 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
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring Connections	Communication	Min.	㎟	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 / Wind Free	dB(A)	30 / 28 / 26	30 / 28 / 26	33 / 31 / 28
	Sound Power Level	Cooling	dB(A)	46	46	49
Dimensions	Net Weight		kg	18.8	18.8	18.8
			lbs	41.4	41.4	41.4
	Shipping Weight		kg	22.5	22.5	22.5
			lbs	49.6	49.6	49.6
	Net Dimensions (W×H×D)		mm	840 x 246 x 840	840 x 246 x 840	840 x 246 x 840
			inch	33.07 x 9.69 x 33.07	33.07 x 9.69 x 33.07	33.07 x 9.69 x 33.07
	Shipping Dimensions (W×H×D)		mm	898 x 316 x 898	898 x 316 x 898	898 x 316 x 898
			inch	35.35 x 12.44 x 35.35	35.35 x 12.44 x 35.35	35.35 x 12.44 x 35.35
Casing	Material		-	Polypropylene	Polypropylene	Polypropylene
Panel	Model Name		-	V1V33D01CPWW	V1V33D01CPWW	V1V33D01CPWW
	Type		-	Wind Free	Wind Free	Wind Free
	Material		-	HIPS	HIPS	HIPS
	Color		-	DA White	DA White	DA White
	Net Weight		kg	6.3	6.3	6.3
			lbs	13.9	13.9	13.9
	Shipping Weight		kg	8.4	8.4	8.4
			lbs	18.52	18.52	18.52
	Net Dimensions (WxHxD)		mm	950 x 48 x 950	950 x 48 x 950	950 x 48 x 950
			inch	37.4 x 1.9 x 37.4	37.4 x 1.9 x 37.4	37.4 x 1.9 x 37.4
	Shipping Dimensions (W×H×D)		mm	1,010 x 117 x 1,000	1,010 x 117 x 1,000	1,010 x 117 x 1,000
			inch	39.8 x 4.6 x 39.4	39.8 x 4.6 x 39.4	39.8 x 4.6 x 39.4
Additional Accessories	Drain pump		-	Included	Included	Included
		Max. lifting Height / Displacement	in / gal/h	29.53 / 6.34	29.53 / 6.34	29.53 / 6.34
	Air Filter		-	Panel Included	Panel Included	Panel Included

- 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

Specification

V33D Cassette

Model Name				V33D018S6-5P	V33D024S6-5P	V33D030S6-5P
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	18,000	24,000	30,000
			US RT	1.50	2.00	2.50
		Heating	Btu/h	20,000	27,000	34,000
			US RT	1.67	2.25	2.83
Power	Power Input	Cooling	W	38	42	110
		Heating	W	38	42	110
	Current Input	Cooling	A	0.32	0.35	0.90
		Heating	A	0.32	0.35	0.90
	Current	MCA	A	0.51	0.58	1.39
		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		-	Turbo	Turbo	Turbo
	Quantity		EA	1	1	1
	Air Flow Rate	High / Med / Low	CMM	21.0 / 19.0 / 17.5	22.0 / 20.0 / 17.5	38.0 / 32.0 / 25.5
			CFM	742 / 671 / 618	777 / 706 / 618	1,342 / 1,130 / 901
			l/s	350 / 317 / 292	367 / 333 / 292	633 / 533 / 425
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output		W × n	65 × 1	65 × 1	97 × 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	12.70 (1/2)	15.88 (5/8)	15.88 (5/8)
	Heat insulation		-	Both liquid & gas pipes	Both liquid & gas pipes	Both liquid & gas pipes
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring Connections	Communication	Min.	㎟	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 / Wind Free	dB(A)	35.5 / 34 / 32	36 / 35 / 32	43.5 / 39 / 35
	Sound Power Level	Cooling	dB(A)	52	53	60
Dimensions	Net Weight		kg	18.8	18.8	22.3
			lbs	41.4	41.4	49.2
	Shipping Weight		kg	22.5	22.5	26.0
			lbs	49.6	49.6	57.3
	Net Dimensions (W×H×D)		mm	840 x 246 x 840	840 x 246 x 840	840 x 288 x 840
			inch	33.07 x 9.69 x 33.07	33.07 x 9.69 x 33.07	33.07 x 11.39 x 33.07
	Shipping Dimensions (W×H×D)		mm	898 x 316 x 898	898 x 316 x 898	898 x 357 x 898
			inch	35.35 x 12.44 x 35.35	35.35 x 12.44 x 35.35	35.35 x 14.06 x 35.35
Casing	Material		-	Polypropylene	Polypropylene	Polypropylene
Panel	Model Name		-	V1V33D01CPWW	V1V33D01CPWW	V1V33D01CPWW
	Type		-	Wind Free	Wind Free	Wind Free
	Material		-	HIPS	HIPS	HIPS
	Color		-	DA White	DA White	DA White
	Net Weight		kg	6.3	6.3	6.3
			lbs	13.9	13.9	13.9
	Shipping Weight		kg	8.4	8.4	8.4
			lbs	18.52	18.52	18.52
	Net Dimensions (WxHxD)		mm	950 x 48 x 950	950 x 48 x 950	950 x 48 x 950
			inch	37.4 x 1.9 x 37.4	37.4 x 1.9 x 37.4	37.4 x 1.9 x 37.4
	Shipping Dimensions (W×H×D)		mm	1,010 x 117 x 1,000	1,010 x 117 x 1,000	1,010 x 117 x 1,000
			inch	39.8 x 4.6 x 39.4	39.8 x 4.6 x 39.4	39.8 x 4.6 x 39.4
Additional Accessories	Drain pump		-	Included	Included	Included
		Max. lifting Height / Displacement	in / gal/h	29.53 / 6.34	29.53 / 6.34	29.53 / 6.34
	Air Filter		-	Panel Included	Panel Included	Panel Included

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  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

Specification

V33D Cassette

Model Name				V33D036S6-5P	V33D048S6-5P
Power Supply			Φ, #, V, Hz	1,2,208-230,60	1,2,208-230,60
Mode			-	HEAT PUMP	HEAT PUMP
Performance	Capacity	Cooling	Btu/h	36,000	48,000
			US RT	3.00	4.00
		Heating	Btu/h	40,000	54,000
			US RT	3.33	4.50
Power	Power Input	Cooling	W	110	115
		Heating	W	110	115
	Current Input	Cooling	A	0.90	0.95
		Heating	A	0.90	0.95
	Current	MCA	A	1.39	1.45
		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		-	Turbo	Turbo
	Quantity		EA	1	1
	Air Flow Rate	High / Med / Low	CMM	38.0 / 32.0 / 25.5	39.0 / 32.0 / 25.5
			CFM	1,342 / 1,130 / 901	1,377 / 1,130 / 901
			l/s	633 / 533 / 425	650 / 533 / 425
Fan Motor	Type		-	BLDC	BLDC
	Output		W × n	97 × 1	97 × 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
			Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe		Type	Flare connection	Flare connection
			Φ, mm (inch)	15.88 (5/8)	15.88 (5/8)
	Heat insulation		-	Both liquid & gas pipes	Both liquid & gas pipes
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring Connections	Communication	Min.	㎟	0.75	0.75
			AWG	18	18
		Remark	-	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32
	Control Method		-	EEV INCLUDED	EEV INCLUDED
Sound Level	Sound Pressure Level	High / Med / Low / Wind Free	dB(A)	44 / 39 / 35	45 / 39 / 35
	Sound Power Level	Cooling	dB(A)	60	61
Dimensions	Net Weight		kg	22.3	22.3
			lbs	49.2	49.2
	Shipping Weight		kg	26.0	26.0
			lbs	57.3	57.3
	Net Dimensions (W×H×D)		mm	840 x 288 x 840	840 x 288 x 840
			inch	33.07 x 11.39 x 33.07	33.07 x 11.39 x 33.07
	Shipping Dimensions (W×H×D)		mm	898 x 357 x 898	898 x 357 x 898
			inch	35.35 x 14.06 x 35.35	35.35 x 14.06 x 35.35
Casing	Material		-	Polypropylene	Polypropylene
Panel	Model Name		-	V1V33D01CPWW	V1V33D01CPWW
	Type		-	Wind Free	Wind Free
	Material		-	HIPS	HIPS
	Color		-	DA White	DA White
	Net Weight		kg	6.3	6.3
			lbs	13.9	13.9
	Shipping Weight		kg	8.4	8.4
			lbs	18.52	18.52
	Net Dimensions (WxHxD)		mm	950 x 48 x 950	950 x 48 x 950
			inch	37.4 x 1.9 x 37.4	37.4 x 1.9 x 37.4
	Shipping Dimensions (W×H×D)		mm	1,010 x 117 x 1,000	1,010 x 117 x 1,000
			inch	39.8 x 4.6 x 39.4	39.8 x 4.6 x 39.4
Additional Accessories	Drain pump		-	Included	Included
		Max. lifting Height / Displacement	in / gal/h	29.53 / 6.34	29.53 / 6.34
	Air Filter		-	Panel Included	Panel Included

- 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

Summary Table

V33D Cassette

Performance Characteristics

Model Code	Net Weight (lbs)	Fan Speed	Nominal Capacity(Btu/h)			Airflow (CFM)	Sound Pressure (dBA)	Sound Power (dBA)
			Cooling	Sensible	Heating			
V33D006S6-5P	41.4	High	6,300	4,500	7,100	547	30	46
		Mid	5,400	3,900	6,500	459	28	-
		Low	4,200	3,000	5,700	353	26	-
V33D009S6-5P	41.4	High	9,000	6,400	10,000	547	30	46
		Mid	8,200	5,800	9,500	494	28	-
		Low	7,700	5,500	9,200	459	26	-
V33D012S6-5P	41.4	High	12,000	8,400	13,500	547	33	49
		Mid	11,000	7,700	12,800	494	31	-
		Low	10,300	7,200	12,400	459	28	-
V33D018S6-5P	41.4	High	18,000	12,600	20,000	742	35.5	52
		Mid	16,500	11,600	19,000	671	34	-
		Low	15,300	10,700	18,300	618	32	-
V33D024S6-5P	41.4	High	24,000	16,300	27,000	777	36	53
		Mid	20,100	15,000	25,700	706	35	-
		Low	19,600	13,300	24,100	618	32	-
V33D030S6-5P	49.2	High	30,000	21,000	34,000	1342	43.5	60
		Mid	25,800	18,100	31,200	1130	39	-
		Low	20,800	14,600	27,900	901	35	-
V33D036S6-5P	49.2	High	36,000	24,800	40,000	1342	44	60
		Mid	31,000	21,400	36,700	1130	39	-
		Low	24,900	17,200	32,800	901	35	-
V33D048S6-5P	49.2	High	48,000	32,600	54,000	1377	45	61
		Mid	40,300	27,400	48,900	1130	39	-
		Low	32,400	22,000	43,700	901	35	-

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Indoor Unit	Power Supply (Ø, #, V, Hz)	Power Input (W)	Current Input (A)	MCA (A)	MOP (A)	FLA (A)
V33D006S6-5P	1,2,208-230,60	20	0.17	0.40	15	0.32
V33D009S6-5P		20	0.17	0.40	15	0.32
V33D012S6-5P		20	0.17	0.40	15	0.32
V33D018S6-5P		38	0.32	0.51	15	0.41
V33D024S6-5P		42	0.35	0.58	15	0.46
V33D030S6-5P		110	0.90	1.39	15	1.11
V33D036S6-5P		110	0.90	1.39	15	1.11
V33D048S6-5P		115	0.95	1.45	15	1.16

NOTE

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

Capacity Table

V33D Cassette

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	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
		Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h
V33D006S6-5P	95	4,400	3,300	5,100	3,900	5,900	4,300	6,300	4,500	6,600	4,500	7,000	4,500	7,500	4,300
V33D009S6-5P	95	6,300	5,200	7,400	5,800	8,500	6,400	9,000	6,400	9,300	6,400	10,000	6,200	10,600	5,900
V33D012S6-5P	95	8,300	6,600	9,700	7,500	11,300	8,100	12,000	8,400	12,300	8,400	13,300	8,400	14,000	7,900
V33D018S6-5P	95	12,500	10,400	14,800	11,400	17,000	12,600	18,000	12,600	18,600	12,600	19,900	12,300	21,200	11,700
V33D024S6-5P	95	16,600	13,000	19,600	14,700	22,600	15,600	24,000	16,300	25,000	16,300	26,700	16,300	28,400	15,600
V33D030S6-5P	95	20,700	17,300	24,300	19,000	28,000	21,000	30,000	21,000	31,000	21,000	33,300	20,700	35,300	20,300
V33D036S6-5P	95	24,800	19,800	29,300	22,000	33,800	24,500	36,000	24,800	37,300	24,800	39,900	24,800	42,400	24,200
V33D048S6-5P	95	33,300	26,200	39,100	28,800	44,900	31,900	48,000	32,600	49,700	32,600	53,100	32,300	56,600	31,900

Heating

TC : Total Capacity

Model	Outdoor temperature (°F, DB)		Indoor temperature (°F, DB)				
			61	65	70	72	75
			TC	TC	TC	TC	TC
	DB	WB	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h
V33D006S6-5P	47	43	7,600	7,500	7,100	6,800	6,300
V33D009S6-5P	47	43	10,800	10,600	10,000	9,600	8,800
V33D012S6-5P	47	43	14,400	14,100	13,500	13,000	11,900
V33D018S6-5P	47	43	21,500	21,200	20,000	19,200	17,500
V33D024S6-5P	47	43	28,800	28,400	27,000	25,900	23,800
V33D030S6-5P	47	43	36,500	35,800	34,000	32,600	29,800
V33D036S6-5P	47	43	43,000	42,300	40,000	38,300	35,300
V33D048S6-5P	47	43	57,900	56,800	54,000	51,900	47,300

NOTE

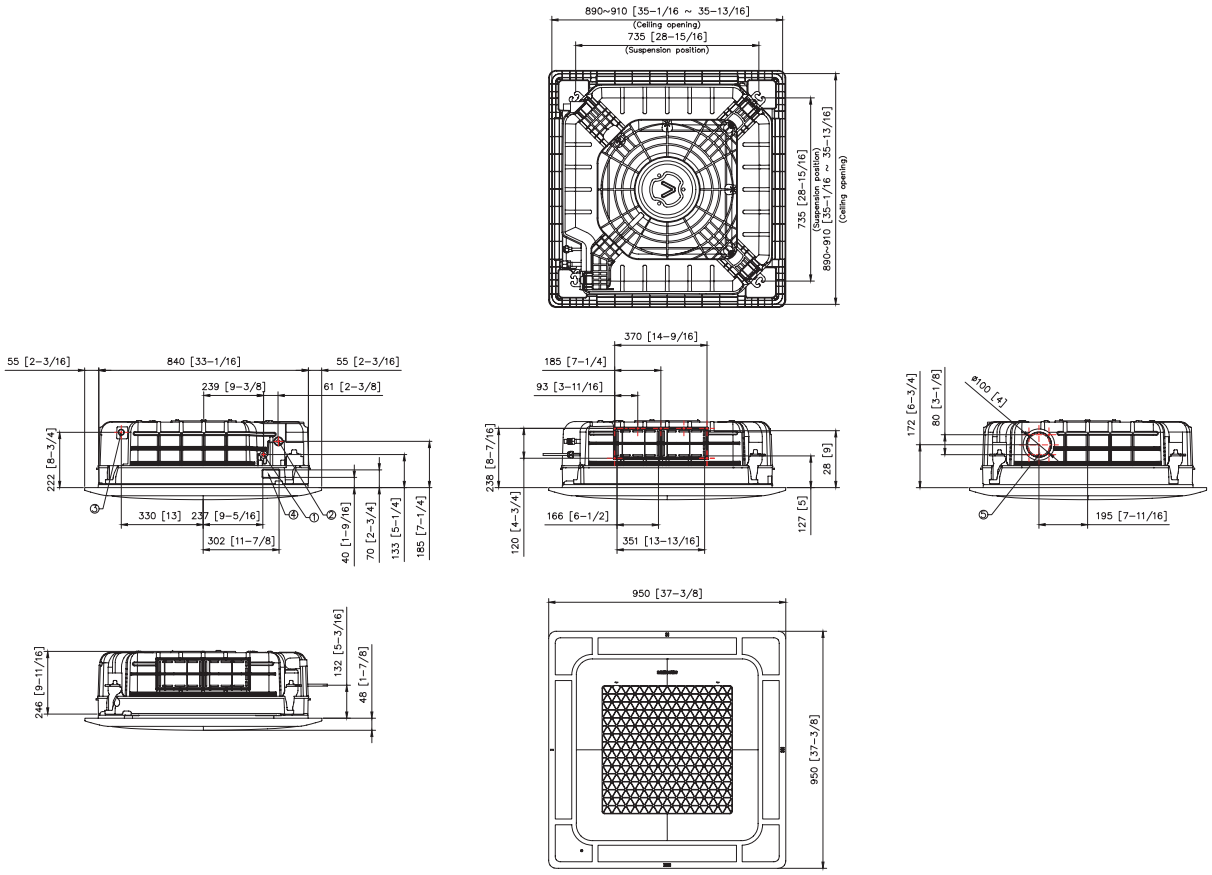
- The performance table shows the average value of each conditions.

Dimensional Drawing

V33D Cassette

V33D006S6-5P, V33D009S6-5P, V33D012S6-5P, V33D018S6-5P, V33D024S6-5P

Units : mm [inches]



No.	Name	Description	
		V33D006/009/012/018S6-5P	V33D024S6-5P
1	Liquid pipe connection	Φ6.35(1/4)	Φ9.52(3/8)
2	Gas pipe connection	Φ12.7(1/2)	Φ15.88(5/8)
3	Drain pipe connection	VP25 (OD 32,ID 25)	
4	Power supply & Communication wiring conduit	-	
5	Fresh air intake knockout hole	Φ10[4] , Use M4 Screw	

NOTE

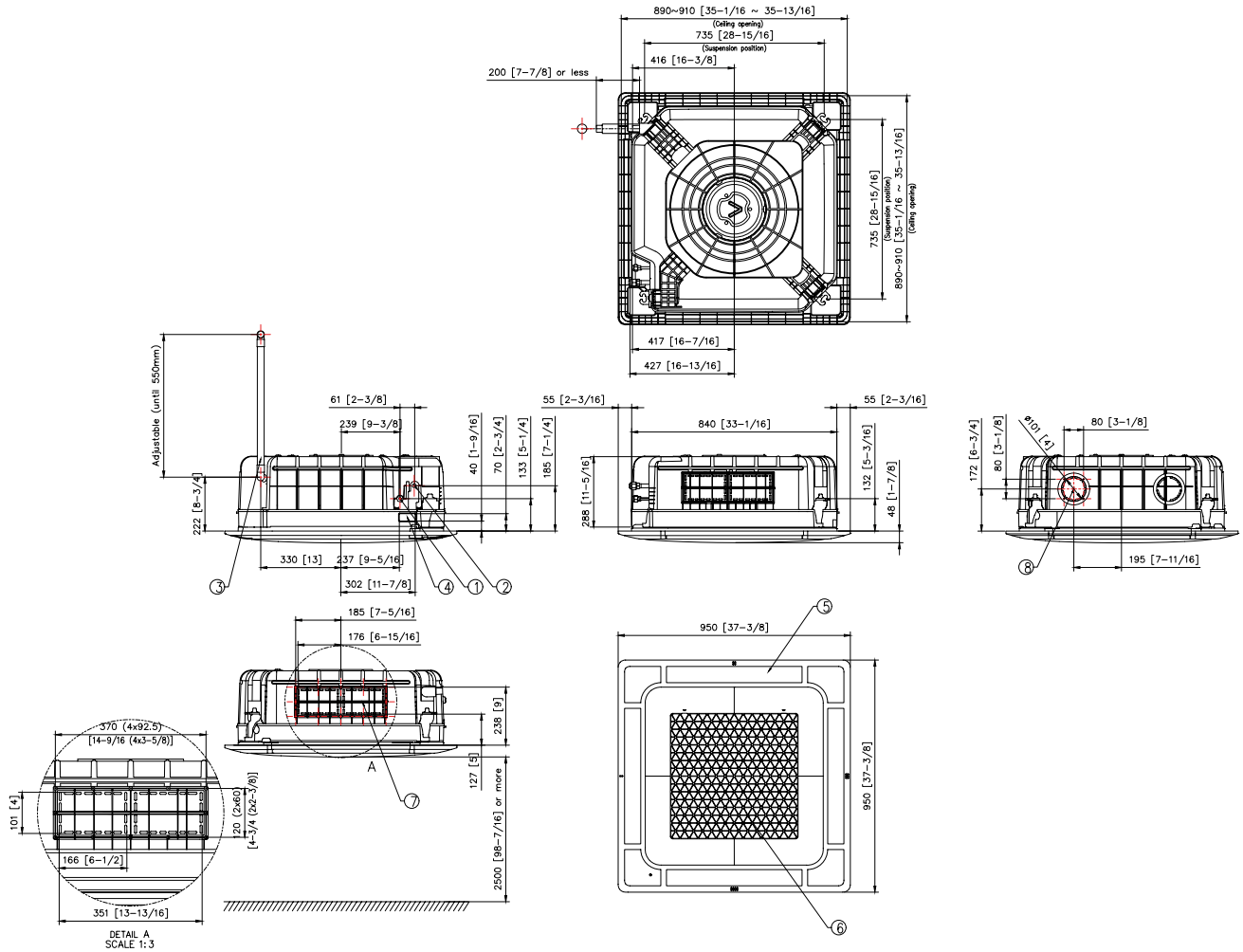
- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

Dimensional Drawing

V33D Cassette

V33D030S6-5P, V33D036S6-5P, V33D048S6-5P

Units : mm [inches]



No.	Name	Description
1	Liquid pipe connection	Φ9.52(3/8)
2	Gas pipe connection	Φ15.88(5/8)
3	Drain pipe connection	VP25 (OD 32,ID 25)
4	Power supply & Communication wiring conduit	
5	Air Outlet Louver	
6	Air Inlet Grille	
7	Sub - duct	* The sub duct is not applicabel to the Wind-free panel
8	Fresh air intake	Φ10[4] , Use M4 Screw

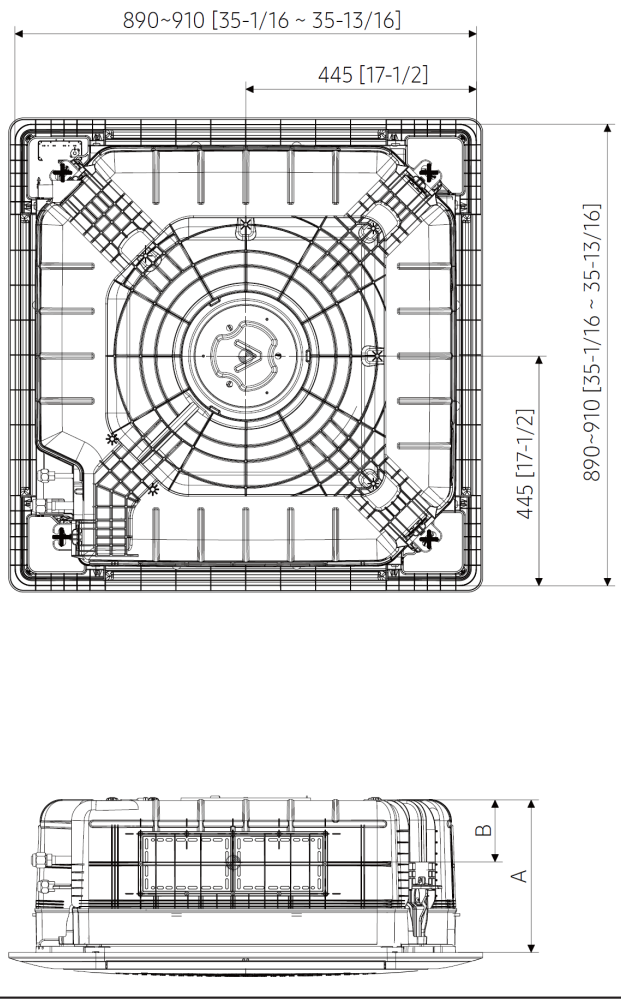
NOTE

- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

Center of Gravity

V33D Cassette

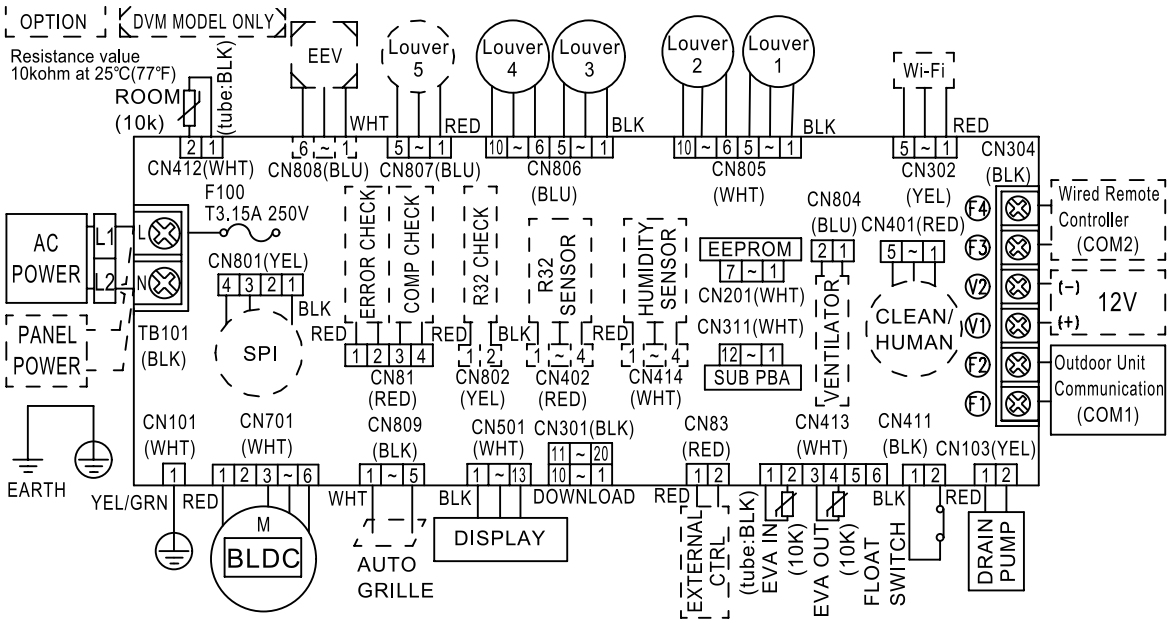
Units : mm [inches]



Model Name	A	B
V33D006S6-5P **V33D009S6-5P** **V33D012S6-5P** **V33D018S6-5P** **V33D024S6-5P**	265 [10-7/16]	114 [4-1/2]
V33D030S6-5P **V33D036S6-5P** **V33D048S6-5P**	305 [12]	130 [5-1/8]

Electrical Wiring Diagram

V33D Cassette



F100	FUSE	EEV	Electronic Expansion Valve	ROOM(10K)	Thermistor ROOM OUT(10K)
M-BLDC	BLDC Motor	EXT_CONTROL	EXTERNAL_CONTROL	EVA-IN(10K)	Thermistor EVA IN(10K)
				EVA-OUT(10K)	Thermistor EVA OUT(10K)

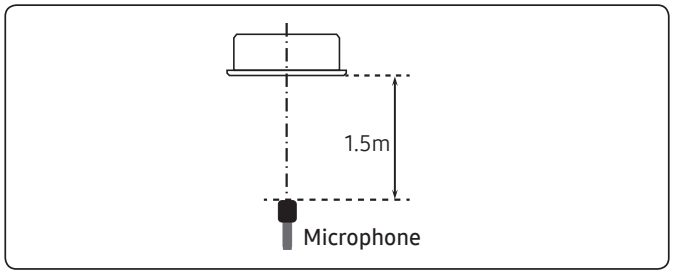
NOTE

- 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: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective earth(screw), ⊏⊐⊐⊐ : connector, N : The wire quantity

Sound Data

V33D Cassette

Sound Pressure level

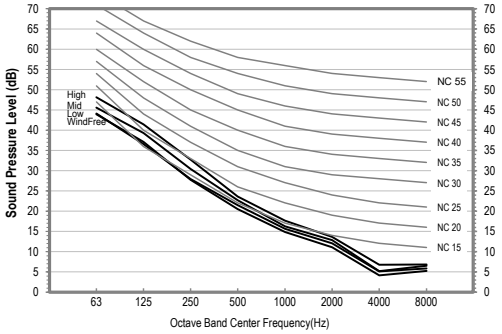


Unit: dB(A)

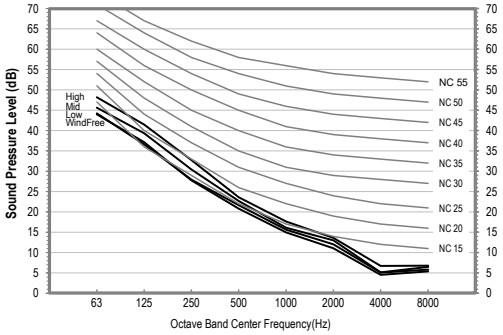
Model	High	MID	LOW	WindFree
V33D006S6-5P	30	28	26	26
V33D009S6-5P	30	28	26	26
V33D012S6-5P	33	31	28	28
V33D018S6-5P	35.5	34	32	32

- NC Curve

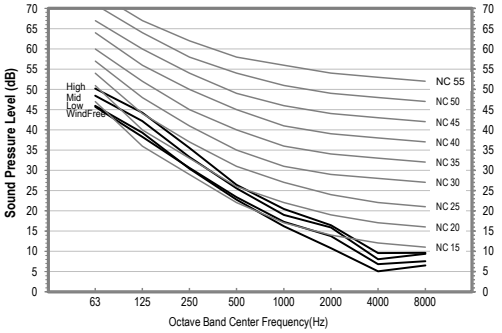
1) V33D006S6-5P



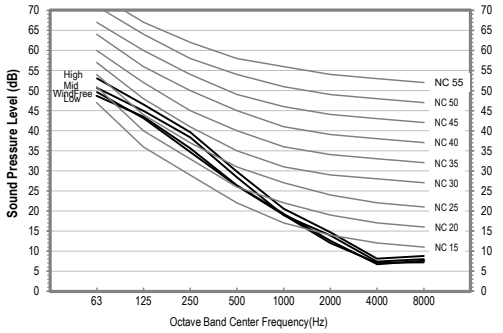
2) V33D009S6-5P



3) V33D012S6-5P



4) V33D018S6-5P



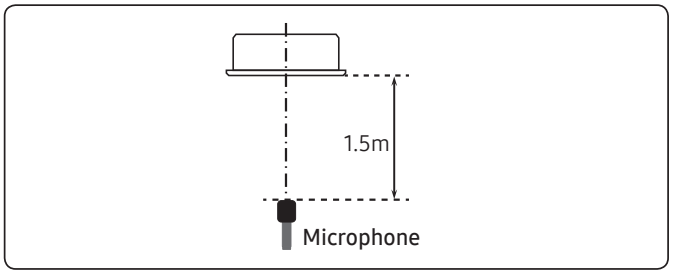
NOTE

- 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

Sound Data

V33D Cassette

Sound Pressure level

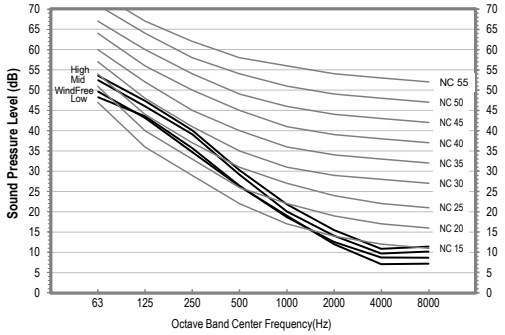


Unit: dB(A)

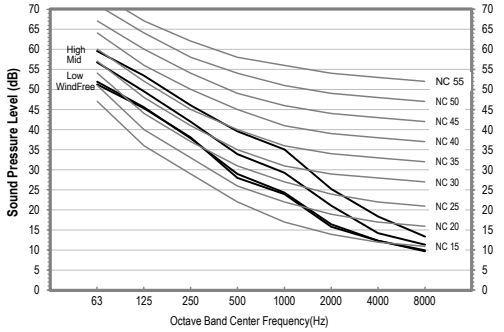
Model	High	MID	LOW	WindFree
V33D024S6-5P	36	35	32	32
V33D030S6-5P	43.5	39	35	35
V33D036S6-5P	44	39	35	35
V33D048S6-5P	45	39	35	35

- NC Curve

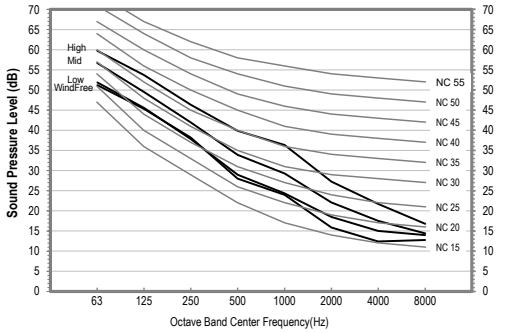
5) V33D024S6-5P



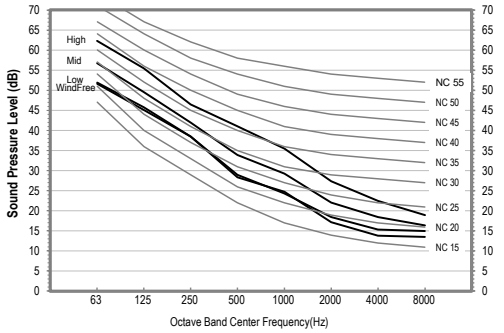
6) V33D030S6-5P



7) V33D036S6-5P



8) V33D048S6-5P



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

Sound Data

V33D Cassette

Sound Power level

NOTE

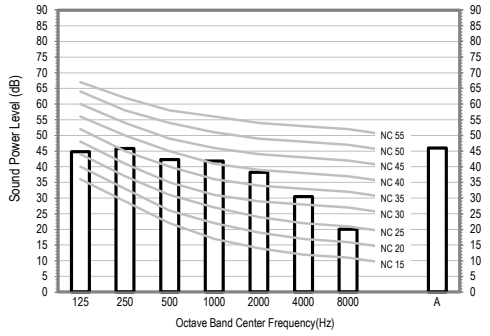
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

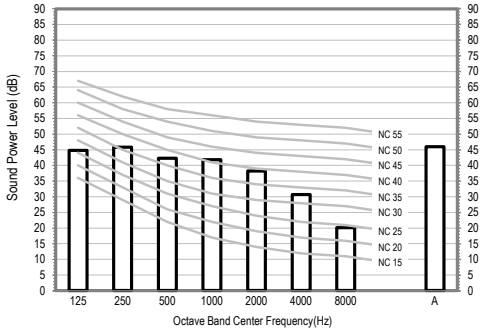
Model	Power
V33D006S6-5P	46
V33D009S6-5P	46
V33D012S6-5P	49
V33D018S6-5P	52

- NC Curve

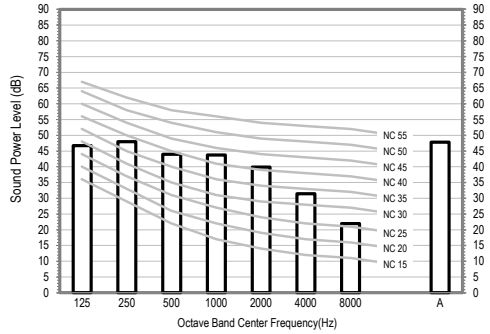
1) V33D006S6-5P



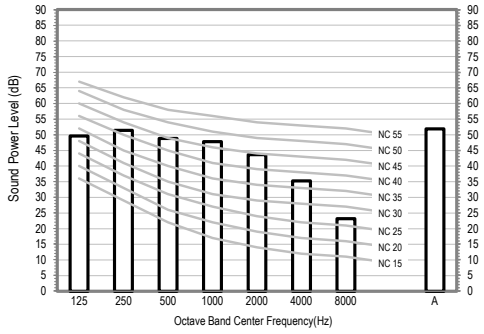
2) V33D009S6-5P



3) V33D012S6-5P



4) V33D018S6-5P



Sound Data

V33D Cassette

Sound Power level

NOTE

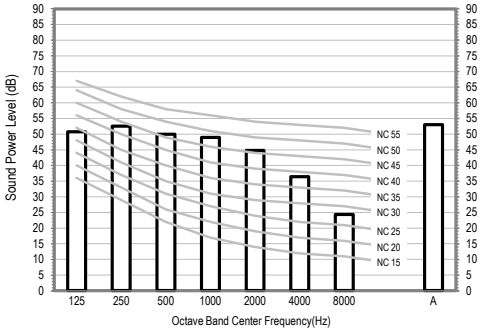
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

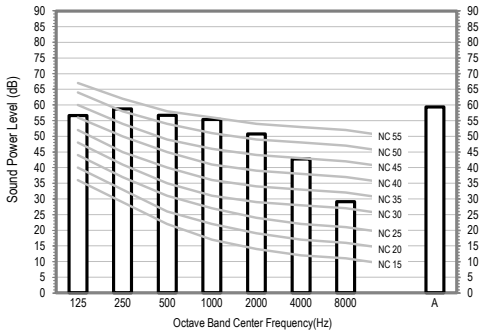
Model	Power
V33D024S6-5P	53
V33D030S6-5P	60
V33D036S6-5P	60
V33D048S6-5P	61

- NC Curve

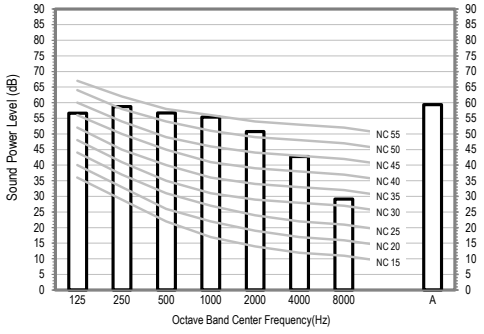
5) V33D024S6-5P



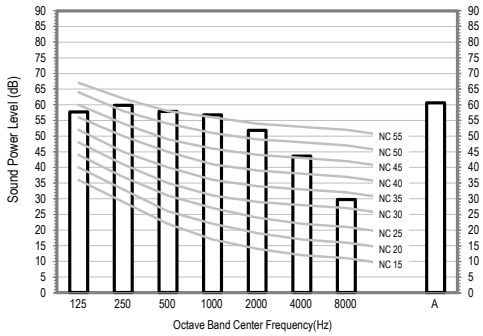
6) V33D030S6-5P



7) V33D036S6-5P



8) V33D048S6-5P

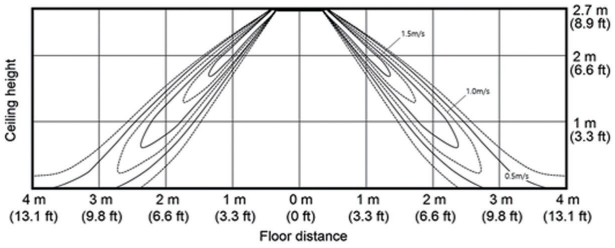


Temperature and air flow distribution

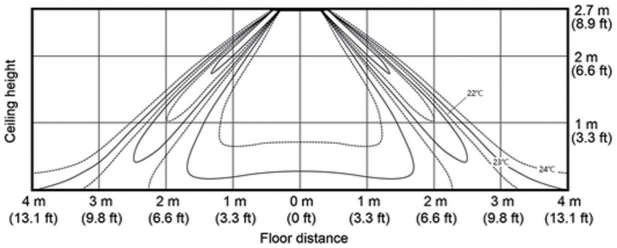
V33D Cassette

V33D006S6-5P

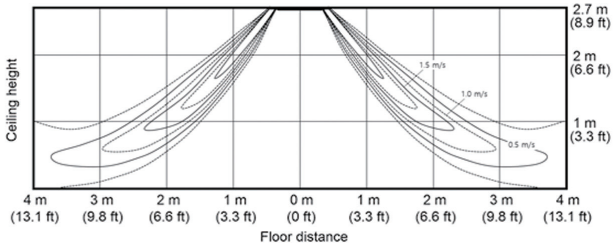
- Cooling Air Velocity distribution
  Discharge angle : 45˚



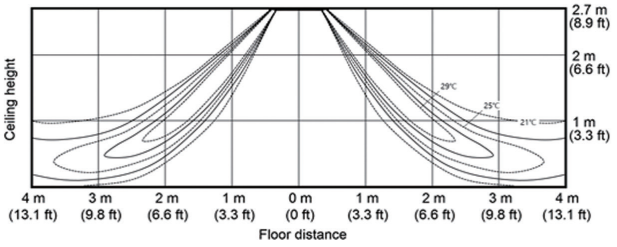
- Cooling Temperature distribution
  Discharge angle : 45˚



- Heating Air Velocity distribution
  Discharge angle : 52˚

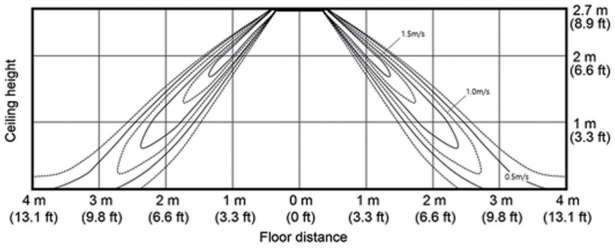


- Heating Temperature distribution
  Discharge angle : 52˚

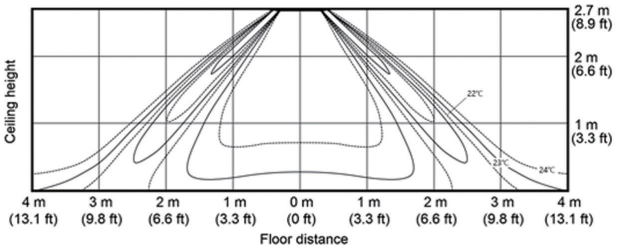


V33D009S6-5P

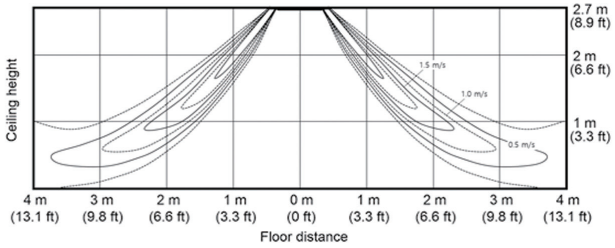
- Cooling Air Velocity distribution
  Discharge angle : 45˚



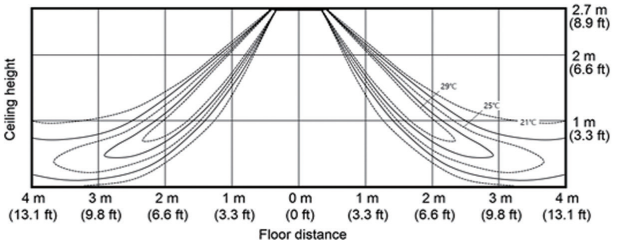
- Cooling Temperature distribution
  Discharge angle : 45˚



- Heating Air Velocity distribution
  Discharge angle : 52˚



- Heating Temperature distribution
  Discharge angle : 52˚

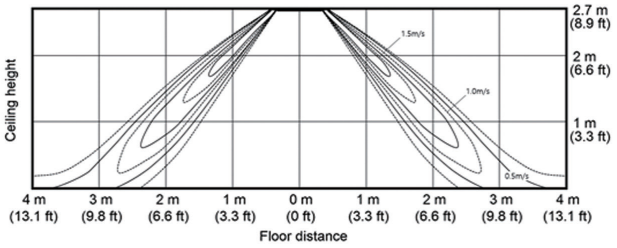


Temperature and air flow distribution

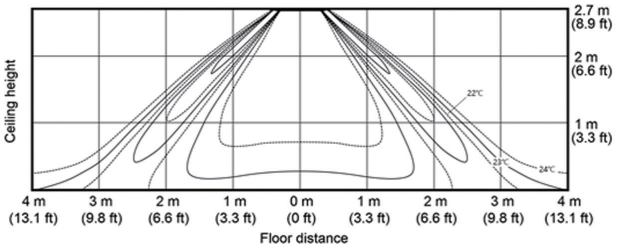
V33D Cassette

V33D012S6-5P

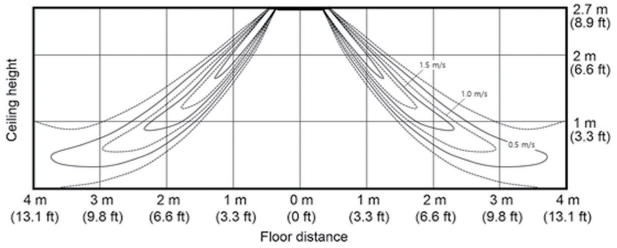
- Cooling Air Velocity distribution
  Discharge angle : 45˚



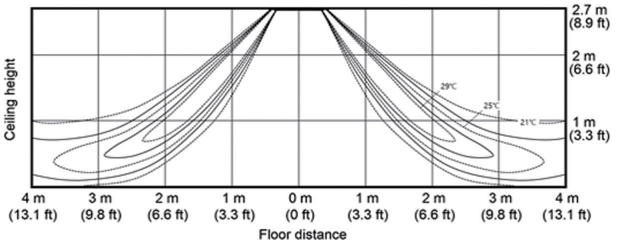
- Cooling Temperature distribution
  Discharge angle : 45˚



- Heating Air Velocity distribution
  Discharge angle : 52˚

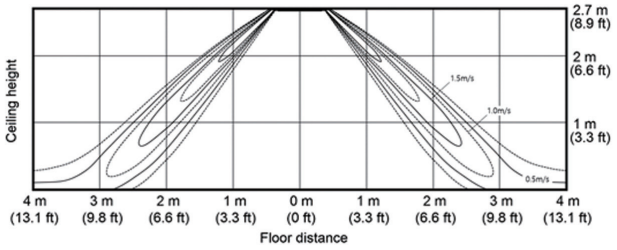


- Heating Temperature distribution
  Discharge angle : 52˚

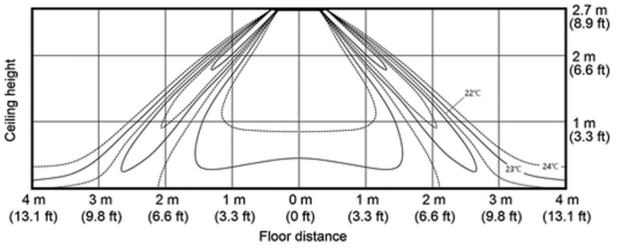


V33D018S6-5P

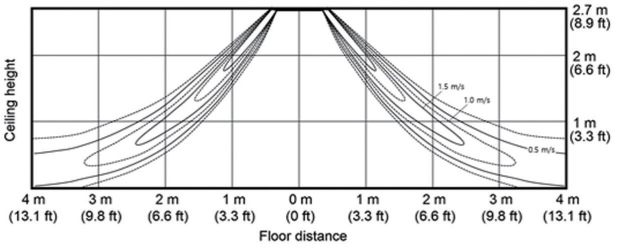
- Cooling Air Velocity distribution
  Discharge angle : 45˚



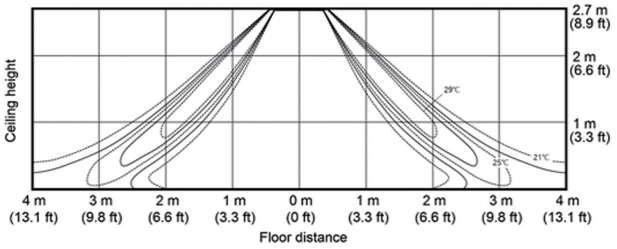
- Cooling Temperature distribution
  Discharge angle : 45˚



- Heating Air Velocity distribution
  Discharge angle : 52˚



- Heating Temperature distribution
  Discharge angle : 52˚

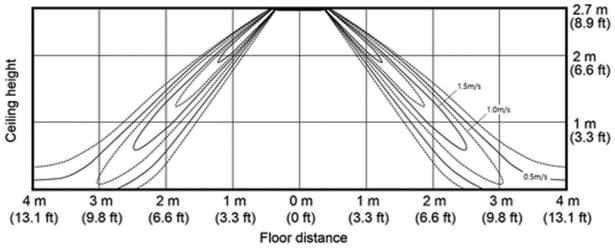


Temperature and air flow distribution

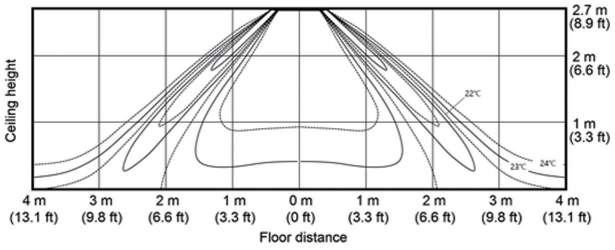
V33D Cassette

V33D024S6-5P

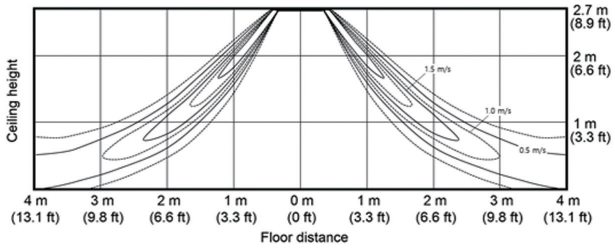
- Cooling Air Velocity distribution
  Discharge angle : 45˚



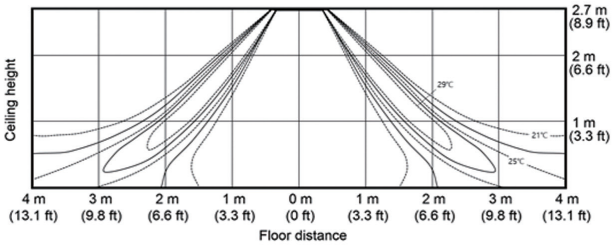
- Cooling Temperature distribution
  Discharge angle : 45˚



- Heating Air Velocity distribution
  Discharge angle : 52˚

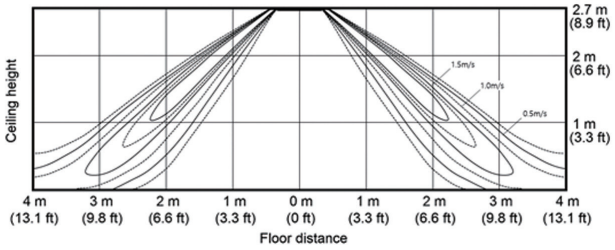


- Heating Temperature distribution
  Discharge angle : 52˚

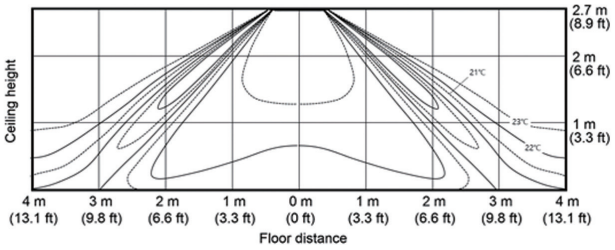


V33D030S6-5P

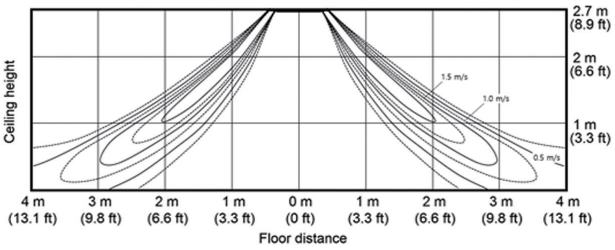
- Cooling Air Velocity distribution
  Discharge angle : 45˚



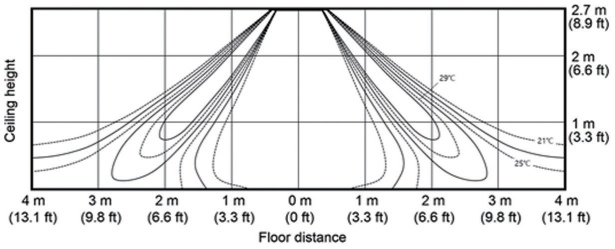
- Cooling Temperature distribution
  Discharge angle : 45˚



- Heating Air Velocity distribution
  Discharge angle : 52˚



- Heating Temperature distribution
  Discharge angle : 52˚

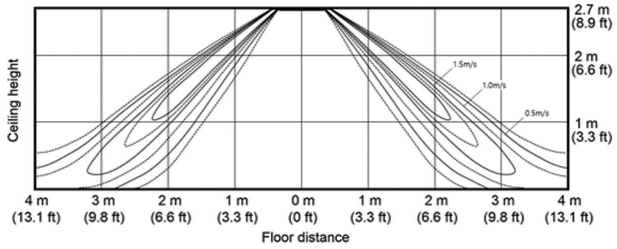


Temperature and air flow distribution

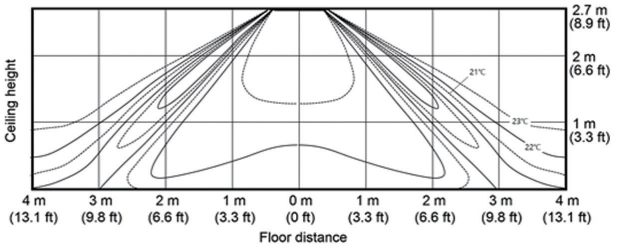
V33D Cassette

V33D036S6-5P

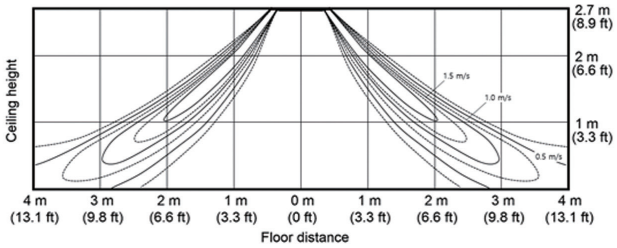
- Cooling Air Velocity distribution
  Discharge angle : 45˚



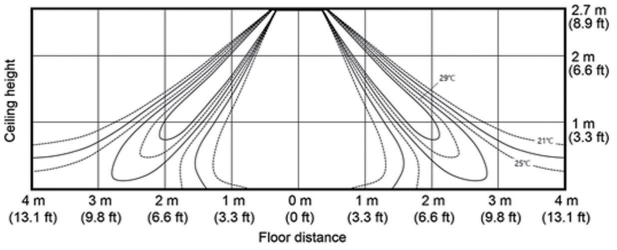
- Cooling Temperature distribution
  Discharge angle : 45˚



- Heating Air Velocity distribution
  Discharge angle : 52˚

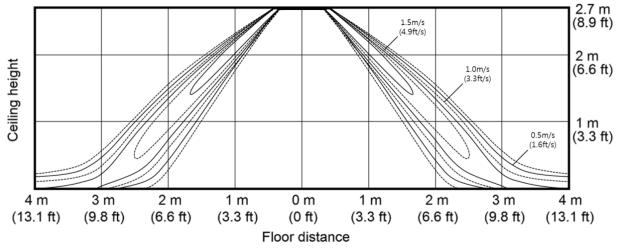


- Heating Temperature distribution
  Discharge angle : 52˚

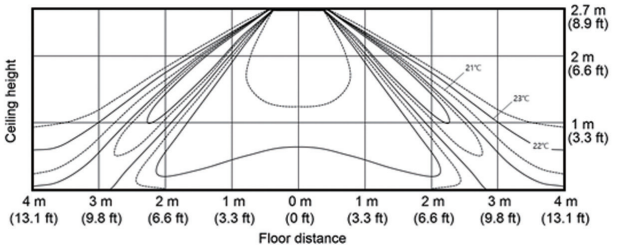


V33D048S6-5P

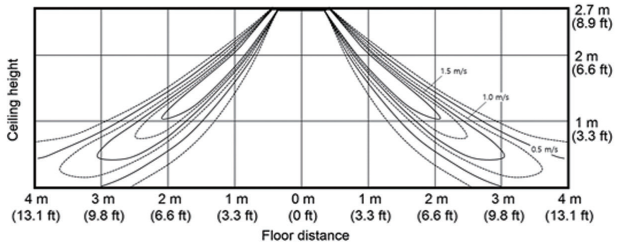
- Cooling Air Velocity distribution
  Discharge angle : 45˚



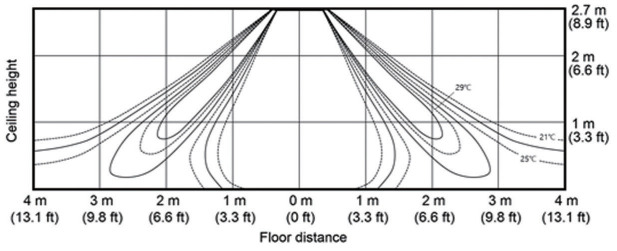
- Cooling Temperature distribution
  Discharge angle : 45˚



- Heating Air Velocity distribution
  Discharge angle : 52˚

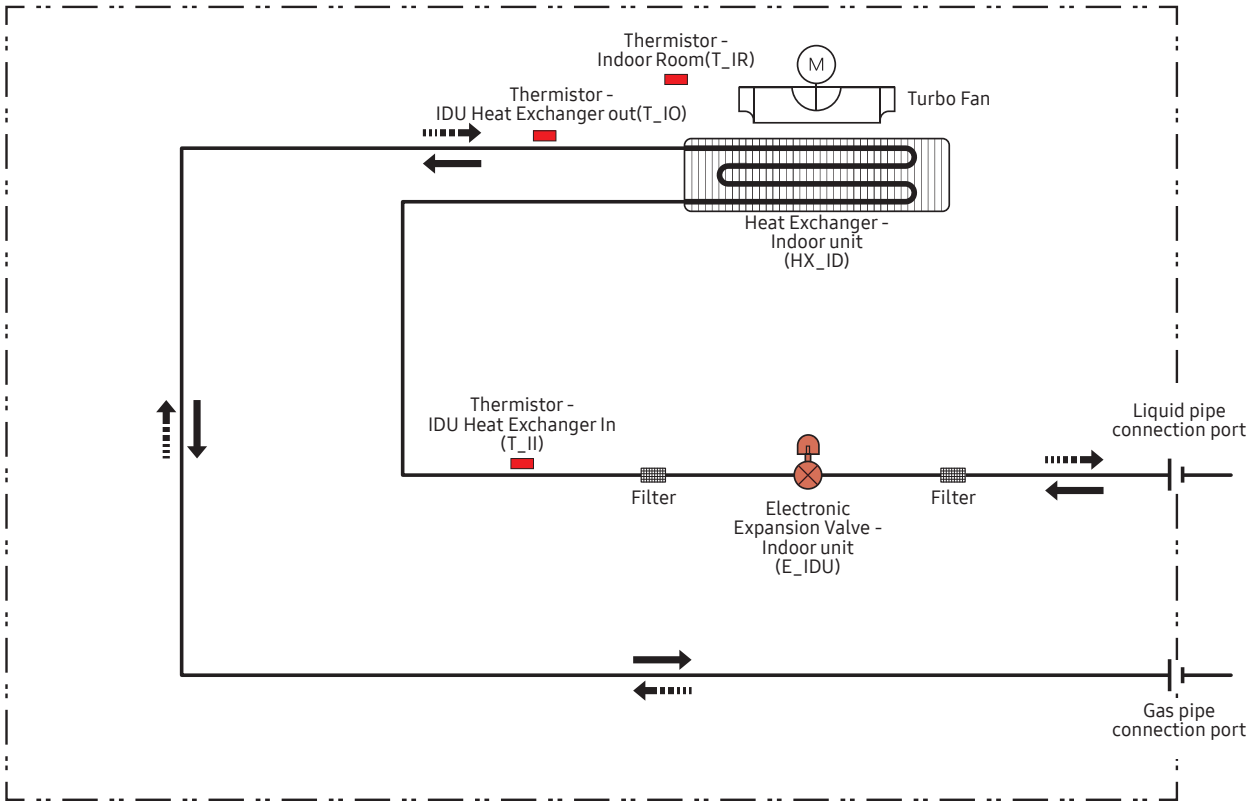


- Heating Temperature distribution
  Discharge angle : 52˚



Piping Diagram

V33D Cassette

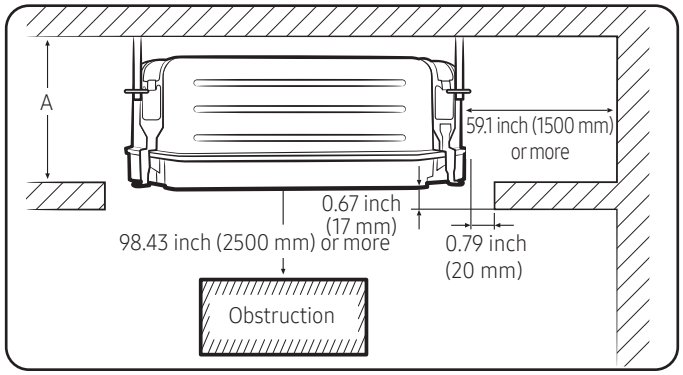


Refrigerant flow	
Cooling	Heating
→	⇢

Installation Clearances

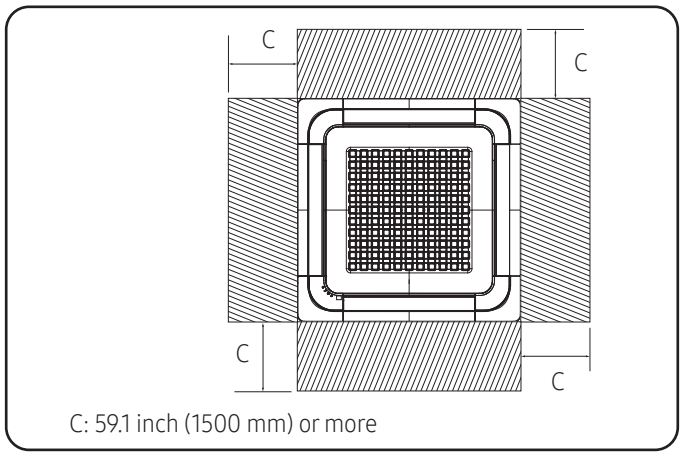
V33D Cassette

Spacing Requirements



Unit: inch(mm)

Model	V33D006S6-5P, V33D009S6-5P V33D012S6-5P, V33D018S6-5P V33D024S6-5P	V33D030S6-5P, V33D036S6-5P V33D048S6-5P
A	11.54 (293)	13.19 (335)



C: 59.1 inch (1500 mm) or more

⚠ CAUTION

- The indoor unit must be installed according to the specified distances in order to permit accessibility from each side, to guarantee correct operationfssss, maintenance, and repair of the unit. The components of the indoor unit must be reachable and removable under safe conditions for people and the unit.
- Do not hold the discharge while carrying the indoor unit to avoid the possibility of breakage.
- You must hold the hanger plate on the corner and carry the indoor unit.

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Contact us at 1-800-4-LENNOX

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.