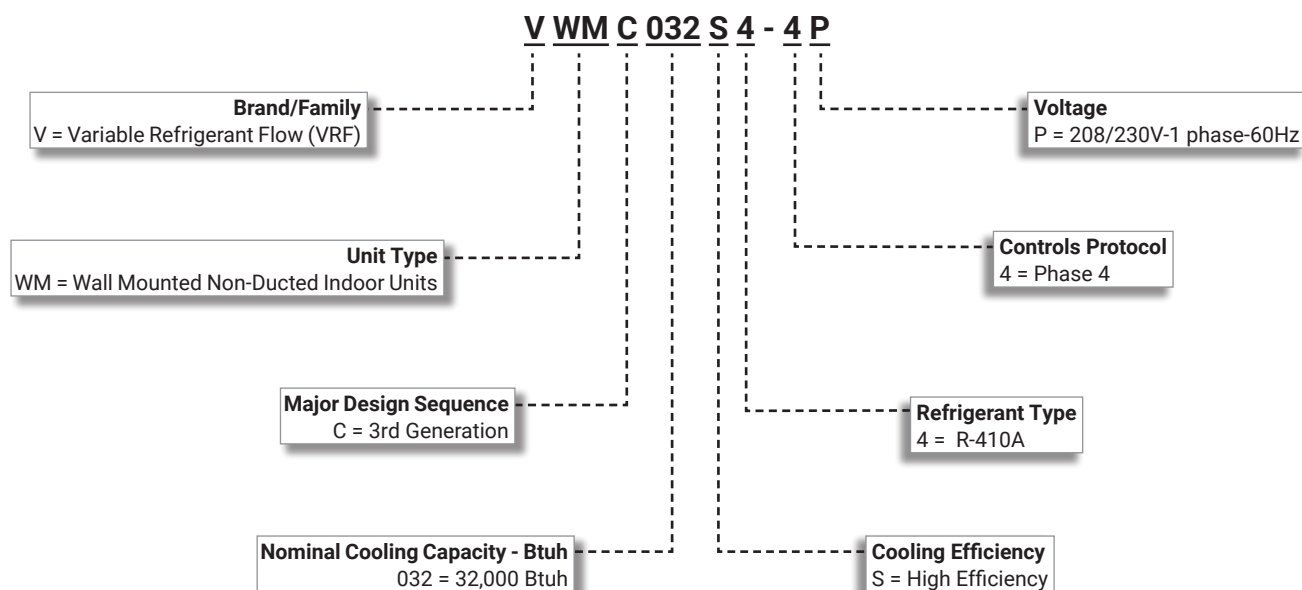


VWMC032Wall-Mounted Non-Ducted Indoor Units | **R-410A** | 60Hz**32,000 Btuh****COMMERCIAL
PRODUCT SPECIFICATIONS (EHB)****MODEL NUMBER IDENTIFICATION**

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Specification

Wall-Mount

Type				WALL MOUNTED
Model Name				VWMC032S4-4P
Power Supply			Φ, #, V, Hz	1,2,208-230,60
Mode			-	HP / HR
Performance	TON		Ton	2.64
	Capacity	Cooling	kW	9.3
			Btu/h	31,700
			US RT	2.64
			kW	9.8
	Heating	Btu/h	33,400	
		US RT	2.78	
Power	Power Input	Cooling	W	66
		Heating		76
	Current Input	Cooling	A	0.47
		Heating		0.54
	Current	MCA	A	0.68
		MOP		15
Heat exchanger	Type		-	Fin & Tube
	Material	Fin	-	Al
		Tube	-	Cu
	Fin Treatment			-
Fan	Type		-	Crossflow Fan
	Quantity		EA	1
	Air Flow Rate	H/M/L	m³/min	23 / 20 / 17
			ft³/min	812 / 706 / 600
			l/s	383 / 333 / 283
Fan Motor	Type		-	BLDC Motor
	Output x n		W	58 x 1
Piping Connections	Liquid Pipe		Type	Flare connection
			Φ, mm (inch)	9.52 (3/8)
	Gas Pipe		Type	Flare connection
			Φ, mm (inch)	15.88 (5/8)
	Heat insulation		-	Both liquid and gas pipes
	Drain Pipe		Φ mm	ID 18 HOSE
Wiring connections	Communication	Min.	mm²	0.75
		Remark	-	F1, F2
Refrigerant	Type		-	R410A
	Electronic Expansion Valve		-	EEV INCLUDED
Sound	Sound Pressure Level	H/M/L	dB(A)	49/46/42
	Sound Power	Cooling		66
External Dimension	Net Weight		kg (lbs)	18.5 (40.8)
	Shipping Weight		kg (lbs)	22.0 (48.5)
	Net Dimensions (WxHxD)		mm	1,280 x 345 x 253
			inch	50 3/8 x 13 9/16 x 9 15/16
	Shipping Dimensions (WxHxD)		mm	1,352 x 326 x 420
			inch	53 1/4 x 12 13/16 x 16 9/16
Casing	Material		-	HIPS

NOTE

- Specification may be subject to change without prior notice.
 - 1) Mode : HP(Heat Pump), HR(Heat Recovery)
 - 2) Capacities are based on (Equivalent refrigerant piping 25ft, Level differences 0ft);
 - Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
 - Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
 - 3) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
 - 4) These products contain R410A which is fluorinated greenhouse gas.
 - 5) Select wire size based on the value of MCA

※ The concept of RAC with EEV included is commercial application only. Residential application such as Hotel, Hospital, Houses where the very quiet surrounding is required should be avoided to prevent such a noise claim.

Performance/Electrical Characteristics

Wall-Mount

Performance Characteristics

Model Code	Fan Speed	Nominal Capacity(Btu/h)			Airflow (CFM)	Sound Pressure (dBA)	Sound Power (dBA)
		Cooling	Sensible	Heating			
VWMC032S4-4P	High	31,700	21,500	33,400	812	49	66
	Mid	28,100	19,100	31,100	706	46	-
	Low	24,100	16,300	28,700	600	42	-

NOTE

- Sound data is based on cooling operation.

Electrical Characteristics

Model Code	Power Supply (Φ, #, V, Hz)	Power Input (W)	Current Input (A)	MCA (A)	MOP (A)	FLA (A)
VWMC032S4-4P	1, 2, 208~230, 60	66 / 76 (C/H)	0.47/ 0.54 (C/H)	0.68	15	0.54

NOTE

- MCA : Minimum circuit amperes
- MOP : Maximum Overcurrent Protective Device (A)
- Select wire size based on the value of MCA

Capacity Table

Wall-Mount

Cooling

TC: Total Capacity, SHC: Sensible Heat Capacity

Capacity Index	Outdoor Air Temp. (°F, DB)	Indoor temperature													
		68(°F,DB)		73(°F,DB)		79(°F,DB)		80(°F,DB)		85(°F,DB)		87(°F,DB)		89(°F,DB)	
		57(°F,WB)		61(°F,WB)		64(°F,WB)		67(°F,WB)		70(°F,WB)		72(°F,WB)		75(°F,WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
		MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH
31.7	50	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	33.1	21.6	35.4	21.6	38.2	20.7
	54	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	33.1	21.6	35.4	21.6	37.8	20.2
	58	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	33.1	21.6	35.4	21.6	37.8	20.2
	60	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	33.1	21.6	35.4	21.6	37.8	20.2
	64	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	37.3	19.7
	67	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	37.3	19.7
	70	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	37.3	19.7
	73	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	37.3	19.7
	77	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	37.3	19.7
	80	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	37.3	19.7
	84	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	37.3	19.7
	88	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	37.3	19.7
	92	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	37.3	19.7
	95	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	37.3	19.7
	99	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	36.8	19.3
	103	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	34.5	20.7	35.9	18.8
	107	21.9	17.4	25.6	19.3	29.6	21.0	31.3	21.3	32.3	21.3	33.9	20.3	35.0	18.3
	111	21.9	17.4	25.6	19.3	28.8	20.4	30.3	20.6	31.3	20.7	32.6	19.5	33.8	17.7
	115	21.9	17.4	25.4	19.1	28.4	20.1	29.3	20.0	30.4	20.1	31.5	18.9	32.9	17.2
	118	21.6	17.2	25.1	18.8	27.9	19.7	28.5	19.4	29.8	19.7	30.6	18.3	31.7	16.6
	120	21.5	17.0	24.9	18.7	27.6	19.5	28.4	19.3	29.3	19.4	30.0	18.0	31.1	16.3

Heating

TC: Total Capacity

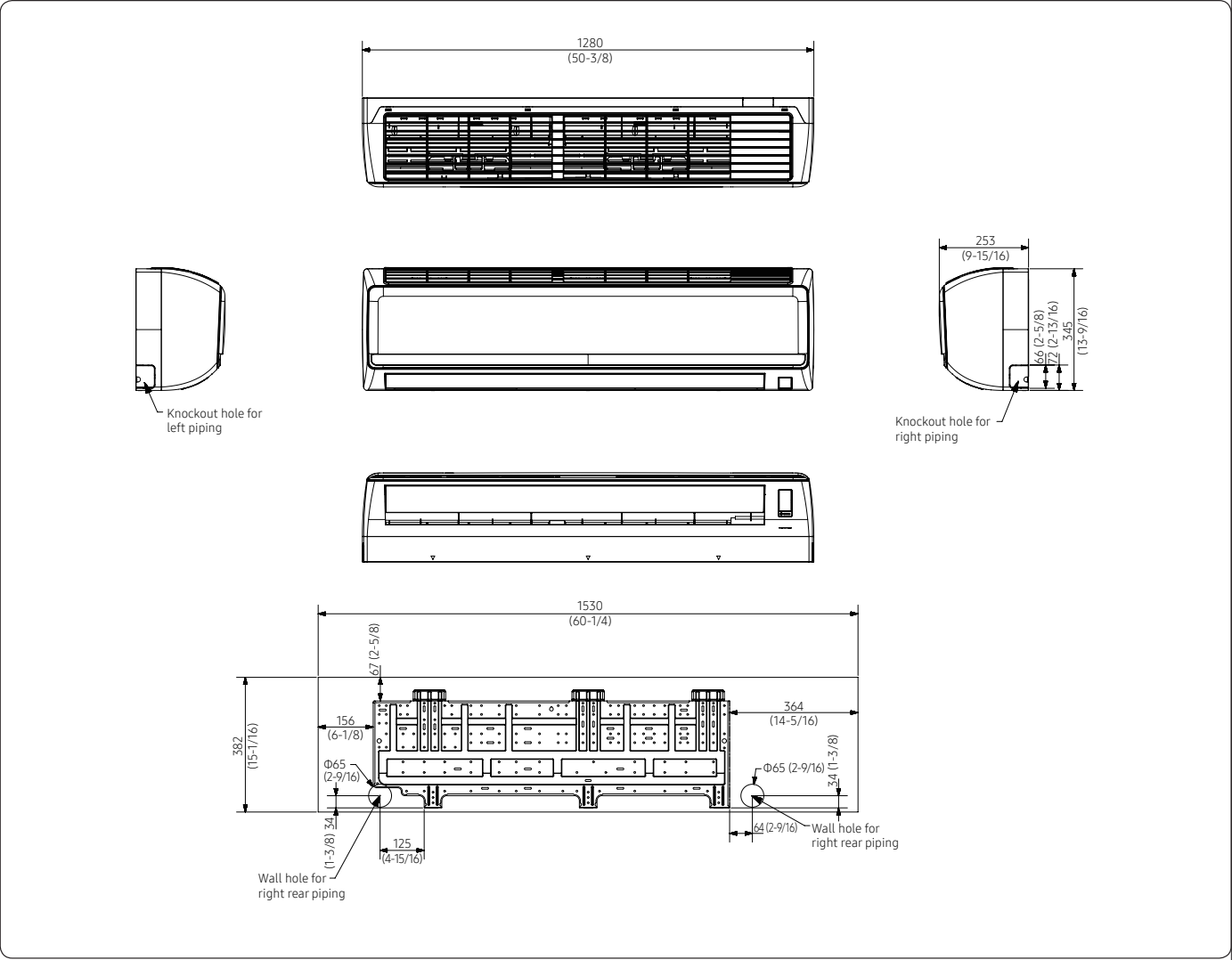
Capacity Index	Outdoor Air Temp. (°F)		Indoor temperature (°F, DB)				
			61.0	65.0	70.0	72.0	75.0
			TC	TC	TC	TC	TC
	DB	WB	MBH	MBH	MBH	MBH	MBH
33.4	-12.6	-13	20.2	19.8	19.3	19.3	19.3
	-7.1	-7.6	20.7	20.2	19.8	19.8	19.8
	-3.6	-4	21.0	20.5	20.1	20.1	20.0
	-1.8	-2.2	21.2	20.7	20.2	20.2	20.0
	2	1	21.6	21.1	20.6	20.5	20.0
	6	5	22.5	22.0	21.1	20.7	20.2
	10	9	23.2	22.7	22.1	21.7	21.2
	13	12	24.1	24.0	23.5	23.0	22.9
	17	15	24.6	24.6	24.1	23.6	23.5
	19	18	25.1	25.1	24.6	24.1	23.9
	23	21	25.8	25.8	25.3	24.8	24.3
	26	24	27.2	26.7	26.7	25.8	24.8
	30	28	28.6	28.2	28.2	26.7	25.8
	35	32	30.1	29.6	29.1	28.2	26.7
	39	36	31.5	31.0	30.5	29.6	28.2
	44	40	32.9	32.4	32.0	30.1	28.2
	47	43	34.4	33.9	33.4	31.0	28.2
	51	47	35.3	34.4	33.4	31.0	28.2
	54	50	36.3	34.8	33.4	31.0	28.2
	57	53	37.7	35.3	33.4	31.0	28.2
	60	56	38.6	35.8	33.4	31.0	28.2

Dimensional Drawing

Wall-Mount

VWMC032S4-4P

Unit: mm (inch)



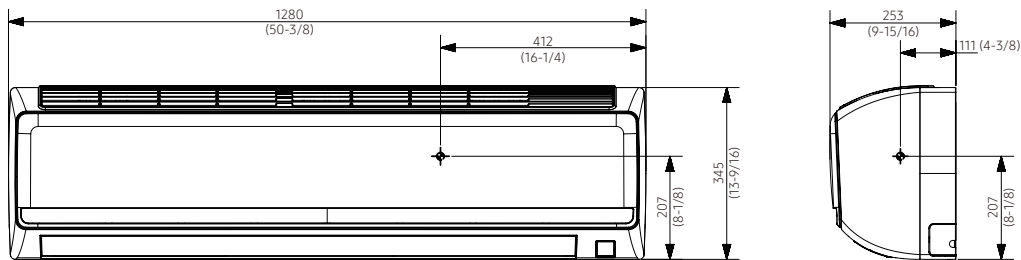
No.	Name	Description
1	Liquid pipe connection	9.52 (3/8")
2	Gas pipe connection	15.88 (5/8")
3	Drain pipe connection	ID 18 HOSE
4	Power supply & Communication wiring conduit	-

Center of Gravity

Wall-Mount

VWMC032S4-4P

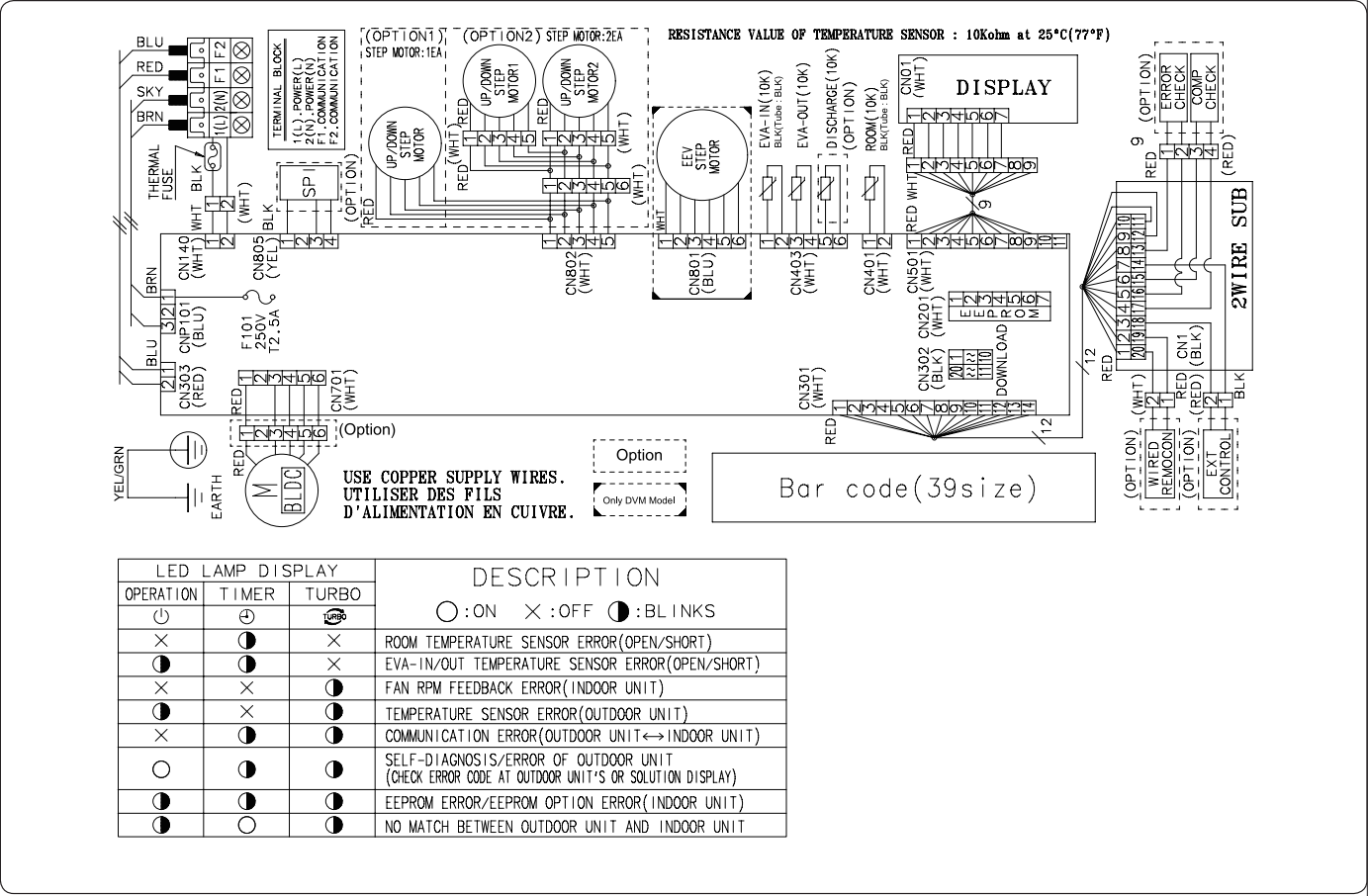
Unit: mm (inch)



Electrical Wiring Diagram

Wall-Mount

VWMC032S4-4P



MAIN PCB	Print circuit board(MAIN)	EEV	Electronics expansion valve	EVA-IN TEMP	Thermistor EVAPORATE
DISPLAY	Print circuit board(DISPLAY)	M-BLDC	BLDC Motor	EVA-OUT TEMP	Thermistor EVAPORATE
2WIRE SUB	Print circuit board(SUB COMM)	ROOM-TEMP	Thermistor AMBIENT		

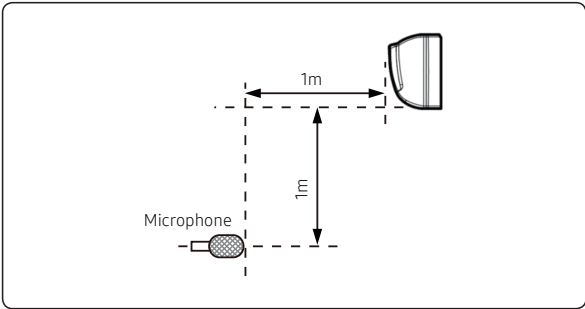
NOTE

- This wiring diagram applies only to the Indoor unit.
- Colors blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue
- When operating, don't shortcircuit the protection device (High Pressure switch)
- For connection wiring indoor-outdoor transmission F1-F2, outdoor-outdoor transmission OF1-OF2, refer to the installation manual.
- ⊕: Protective earth(screw), □: connector, 1/2: The wire quantity

Sound Data

Wall-Mount

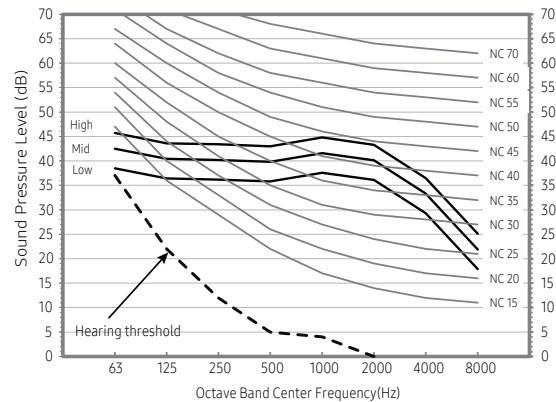
Pressure level



Unit: dB(A)

Model	High	Mid	Low
VWMC032S4-4P	49	46	42

- NC Curve
1) VWMC032S4-4P



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

※ The concept of RAC with EEV included is commercial application only. Residential application such as Hotel, Hospital, Houses where the very quiet surrounding is required should be avoided to prevent such a noise claim.

Sound Data

Wall-Mount

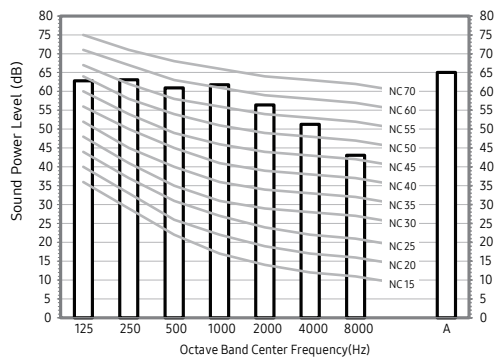
Power level

 NOTE

- Specifications may be subject to change without prior notice
- Sound Power Level
 - 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.
- NR Curve
 - 1) VWMC032S4-4P

Unit: dB(A)

Model	Power
VWMC032S4-4P	66



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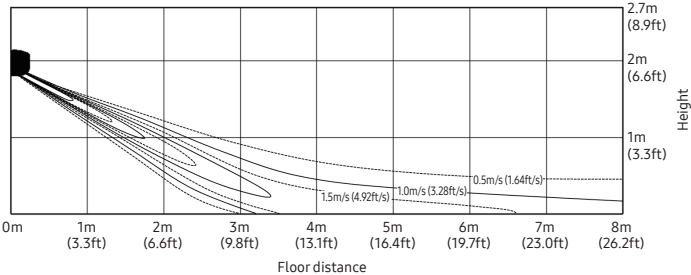
Temperature and air flow distribution

Wall-Mount

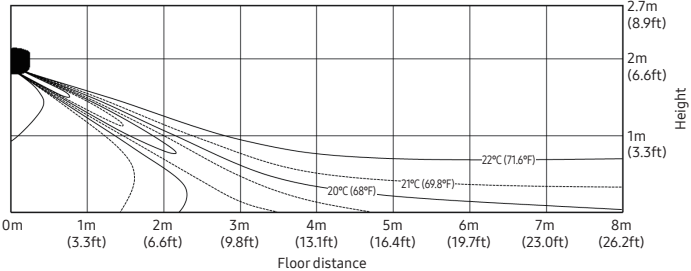
VWMC032S4-4P

Discharge angle : 27

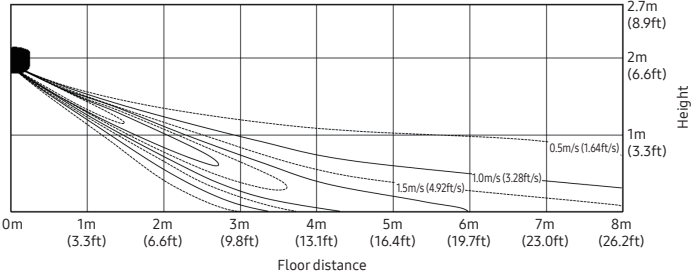
1) Cooling air velocity distribution



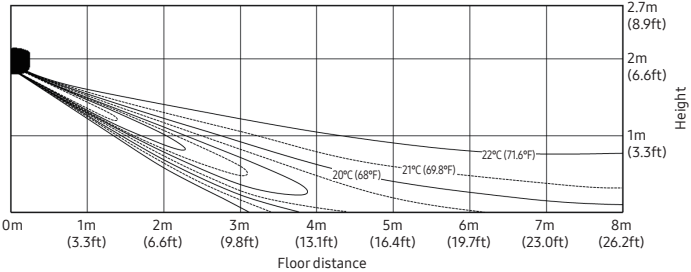
2) Cooling Temperature distribution



3) Heating air velocity distribution



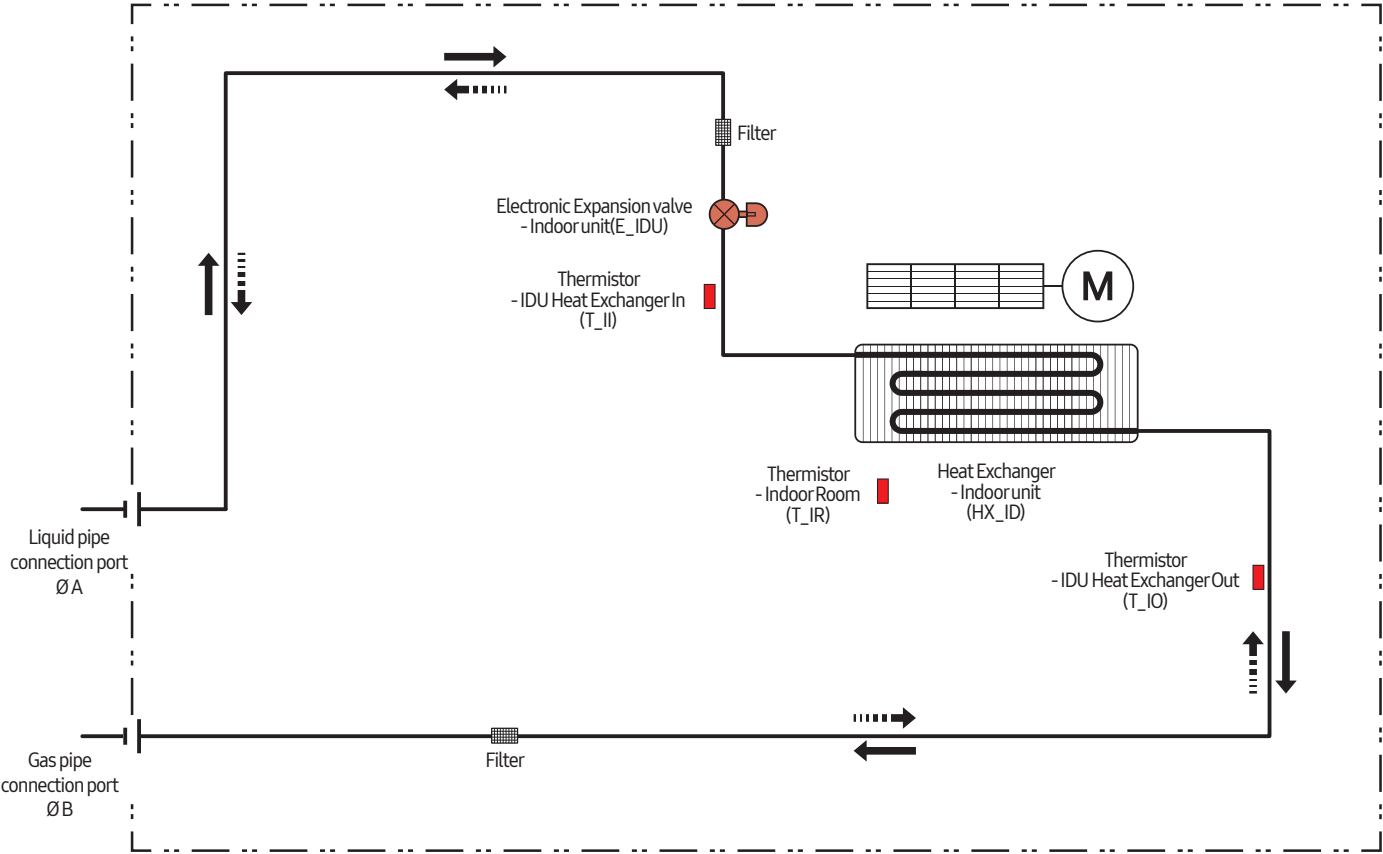
4) Heating Temperature distribution



Piping Diagram

Wall-Mount

EEV included Model



Refrigerant flow	
Cooling	Heating

MODEL	A	B
VWMC032S4-4P	9.52	15.88

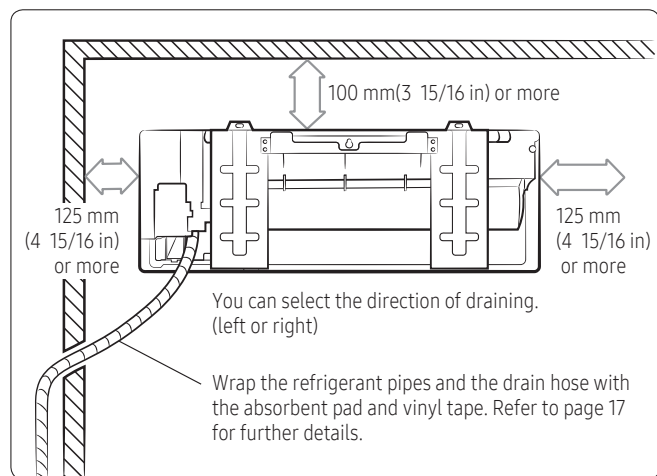
Installation clearances

Wall-Mount

Selecting the installation location

Space requirements for installation & service

Observe the clearances and maximum lengths as seen in the picture below when installing the air conditioner.



NOTE

- The appearance of the unit may be different from the diagram depending on the model.



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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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