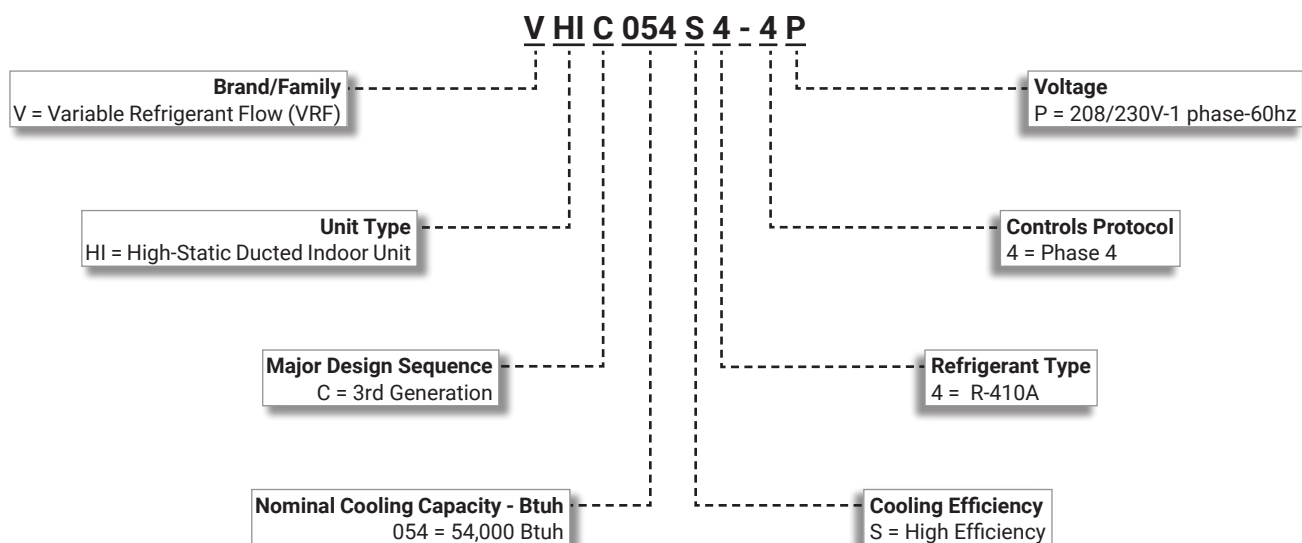


VHIC054High-Static Concealed Ducted Indoor Units | **R-410A** | 60Hz**54,000 Btuh****COMMERCIAL
PRODUCT SPECIFICATIONS (EHB)****MODEL NUMBER IDENTIFICATION**

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Specifications

High Static Duct

Type				HSP Duct	
Model Name				VHIC054S4-4P	
Power Supply			Ø, #, V, Hz	1,2,208-230,60	
Mode			-	HP/HR	
Performance	Ton			5.00	
	Capacity (Nominal)	Cooling	kW	15.83	
			Btu/h	54,000	
			US RT	4.50	
		Heating	kW	17.99	
			Btu/h	61,400	
			US RT	5.11	
Power	Power Input (Nominal)	Cooling	W	280.00	
		Heating		280.00	
	Current Input (Nominal)	Cooling	A	2.10	
		Heating		2.10	
	Current	MCA	A	4.3	
		MOP		15	
Fan	Motor	Type	-	Sirocco Fan	
		Output x n	W	183 x 2	
	Air Flow	H/M/L (UL)	CFM	1,413 / 1,307 / 1,201	
	External Pressure	Min / Std / Max	Pa	30 / 50 / 147	
			In Wg	0.12 / 0.20 / 0.59	
Piping Connections	Liquid Pipe		Ø, mm	9.52	
			Ø, inch	3/8"	
	Gas Pipe		Ø, mm	15.88	
			Ø, inch	5/8"	
	Drain Pipe		Ø, mm	VP25 (OD 32,ID 25)	
Field Wiring	Power Source Wire		mm²	1.5 - 2.5	
	Transmission Cable		mm²	0.75 - 1.50	
Refrigerant	Type		-	R410A	
	Control Method		-	INCLUDED	
Sound	Pressure	High / Mid / Low	dB(A)	45 / 43 / 40	
	Power	Cooling		63	
Dimensions	Net Weight		kg	62.5	
			lbs	137.8	
	Shipping Weight		kg	69.8	
			lbs	153.9	
	Net Dimensions (WxHxD)		mm	1,200 x 360 x 650	
			inch	47.24 x 14.17 x 25.59	
	Shipping Dimensions (WxHxD)		mm	1,456 x 440 x 778	
inch			57.32 x 17.32 x 30.63		
Additional Accessories	Drain pump	Drain pump	-	Built-In	
		Max. lifting Height / Displacement	inch / liter/h	29 / 24	
	Filtration ¹⁾		-	Long Life Filter	

- Nominal capacity are based on (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

- Sound pressure level is acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

- Specifications are subject to change without prior notice for product improvement.

1) An optional filter box is available.

Capacity table

High Static Duct

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (°F, DB)	Indoor temperature (°F, WB)													
		57.0		61.0		64.0		67.0		70.0		72.0		75.0	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
54.00	50.0	37.50	32.90	44.00	37.10	50.60	40.20	54.00	41.30	56.40	41.70	60.60	42.10	64.80	41.70
	54.0	37.50	32.90	44.00	37.10	50.60	40.20	54.00	41.30	56.00	41.30	60.20	41.70	64.50	41.30
	58.0	37.50	32.90	44.00	37.10	50.60	40.20	54.00	41.30	56.00	41.30	60.20	41.70	64.50	41.30
	60.0	37.50	32.90	44.00	37.10	50.60	40.20	54.00	41.30	56.00	41.30	60.20	41.70	64.10	41.00
	64.0	37.50	32.90	44.00	37.10	50.60	40.20	54.00	41.30	56.00	41.30	59.90	41.30	64.10	41.00
	67.0	37.50	32.90	44.00	37.10	50.60	40.20	54.00	41.30	56.00	41.30	59.90	41.30	63.70	40.60
	70.0	37.50	32.90	44.00	37.10	50.60	40.20	54.00	41.30	56.00	41.30	59.90	41.30	63.70	40.60
	73.0	37.50	32.90	44.00	37.10	50.60	40.20	54.00	41.30	56.00	41.30	59.90	41.30	63.70	40.60
	77.0	37.50	32.90	44.00	37.10	50.60	40.20	54.00	41.30	56.00	41.30	59.90	41.30	63.70	40.60
	80.0	37.50	32.90	44.00	37.10	50.60	40.20	54.00	41.30	56.00	41.30	59.90	41.30	63.70	40.60
	84.0	37.50	32.90	44.00	37.10	50.60	40.20	54.00	41.30	56.00	41.30	59.90	41.30	63.70	40.60
	88.0	37.50	32.90	44.00	37.10	50.60	40.20	54.00	41.30	56.00	41.30	59.90	41.30	63.70	40.60
	92.0	37.50	32.90	44.00	37.10	50.60	40.20	54.00	41.30	56.00	41.30	59.90	41.30	63.70	40.60
	95.0	37.50	32.90	44.00	37.10	50.60	40.20	54.00	41.30	56.00	41.30	59.90	41.30	63.70	40.60
	99.0	37.50	32.90	44.00	37.10	50.60	40.20	54.00	41.30	56.00	41.30	59.40	41.00	62.90	40.20
	103.0	37.50	32.90	44.00	37.10	50.60	40.20	54.00	41.30	55.60	41.00	58.30	40.20	61.40	39.40
	107.0	37.50	32.90	44.00	37.10	50.20	39.90	53.30	40.80	54.90	40.50	57.30	39.50	59.90	38.50
	111.0	37.50	32.90	44.00	37.10	48.80	38.80	51.60	39.50	53.30	39.40	55.00	37.90	57.80	37.10
	115.0	37.50	32.90	43.50	36.80	48.00	38.10	50.00	38.30	51.90	38.10	53.20	36.70	56.30	36.10
	118.0	37.50	32.40	43.10	36.20	47.30	37.60	48.60	37.20	50.70	37.40	51.80	35.70	54.20	34.90
	120.0	37.00	32.00	42.50	35.80	46.20	36.70	48.20	36.80	49.20	36.20	49.70	34.20	52.20	33.50

Capacity table

High Static Duct

Heating

TC : Total Capacity

Model	Outdoor temperature (°F)		Indoor temperature (°F, DB)				
			61.0	65.0	70.0	72.0	75.0
			TC	TC	TC	TC	TC
54.00	DB	WB	MBH	MBH	MBH	MBH	MBH
	-3.6	-4.0	36.60	36.60	36.20	36.20	35.80
	-1.8	-2.0	37.40	37.20	36.40	36.40	35.90
	2.0	1.0	39.10	38.30	37.20	37.10	36.20
	6.0	5.0	41.30	40.30	39.10	38.00	36.80
	10.0	9.0	42.60	41.80	40.90	40.10	39.00
	13.0	12.0	44.50	44.00	43.20	42.80	41.80
	17.0	15.0	45.40	44.90	44.20	43.80	42.90
	19.0	18.0	46.30	45.70	45.10	44.30	43.40
	23.0	21.0	47.60	46.80	46.50	45.40	44.20
	26.0	24.0	50.40	49.60	48.80	47.30	46.10
	30.0	28.0	53.00	52.20	51.50	49.60	47.60
	35.0	32.0	55.30	54.60	53.80	51.50	49.10
	39.0	36.0	58.00	57.20	56.50	54.10	51.80
	44.0	40.0	60.70	59.90	58.80	55.30	51.80
	47.0	43.0	63.30	62.20	61.40	56.90	51.80
	51.0	47.0	65.30	63.30	61.40	56.90	51.80
	54.0	50.0	67.20	64.10	61.40	56.90	51.80
	57.0	53.0	69.10	65.30	61.40	56.90	51.80
	60.0	56.0	71.10	66.10	61.40	56.90	51.80

Dimensional drawing

High Static Duct

VHIC054S4-4P

Units : mm / inches

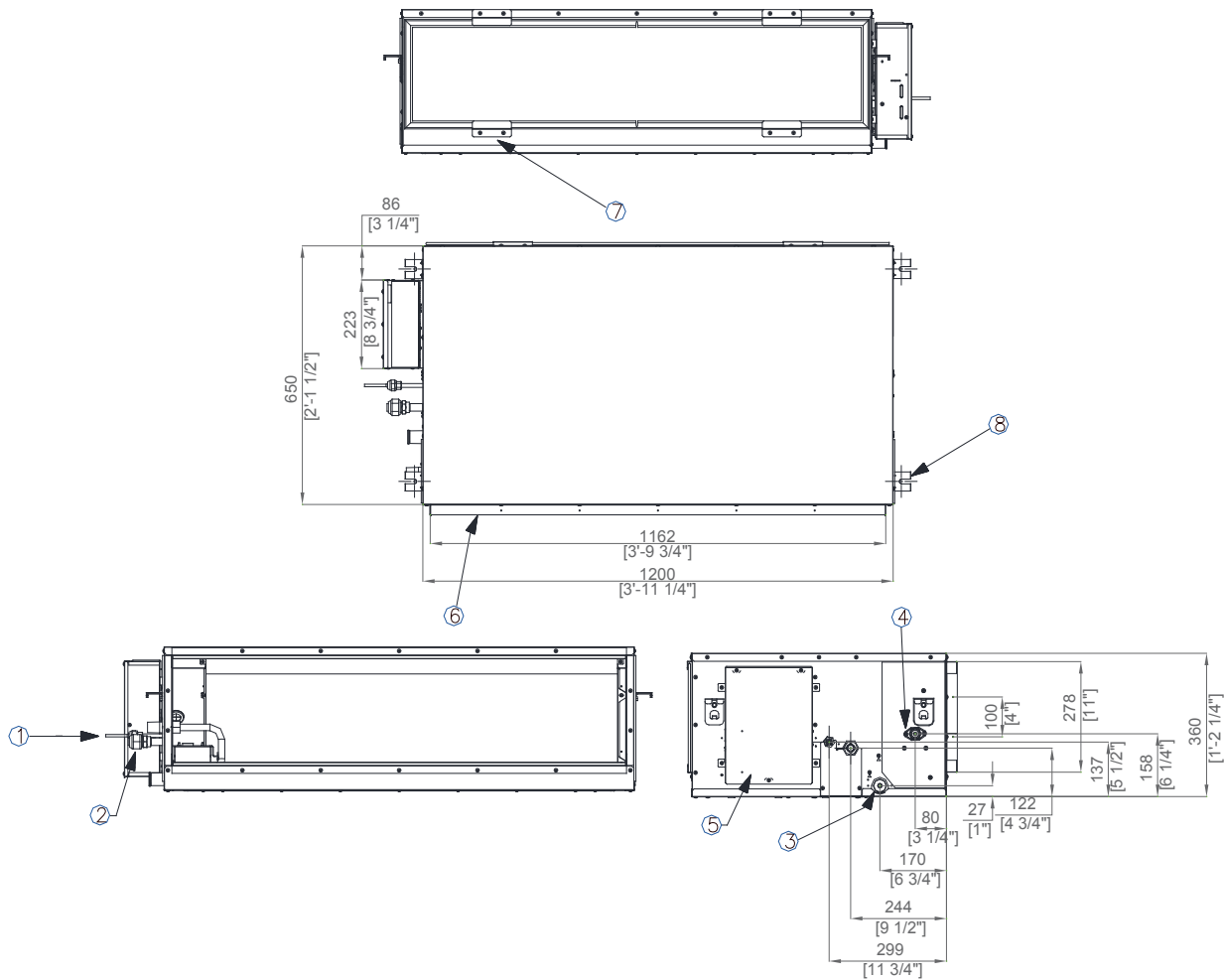
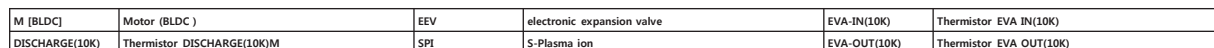


Table of descriptions

1	Refrigerant liquid pipe	5	Power supply connection
2	Refrigerant gas pipe	6	Air discharge flange
3	Drain Pipe Connection (Optional)	7	Air filter
4	Drain Pipe Connection (Using dain pump)	8	Hook

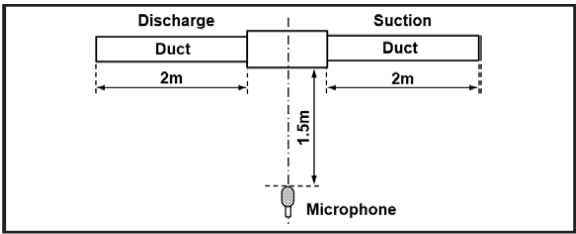
VHIC054S4-4P



1. This wiring diagram applies only to the Indoor unit.
2. Symbols show as follow : BLK: black, RED: red, BLU: blue, WHT: white, YEL: yellow, BRN: brown, sky: sky blue: GRN: green, ORG: orange,
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
4. Protective earth(SCREW)

Sound pressure level

High Static Duct



Unit: dB(A)

Model	High	Mid	Low
VHIC054S4-4P	45	43	40

Note

* Specifications may be subject to change without prior notice.

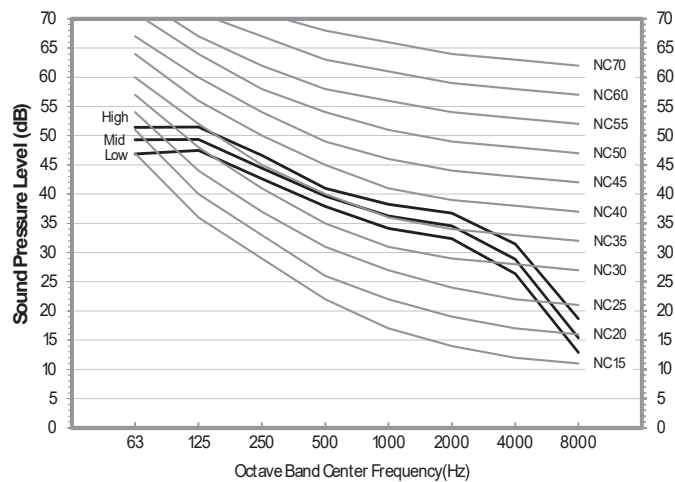
1) These operation values are obtained in an anechoic room.

2) Sound pressure level is a relative value, depending on the distance and acoustic environment.

3) Sound pressure level may differ depending on operation condition.

NC curve

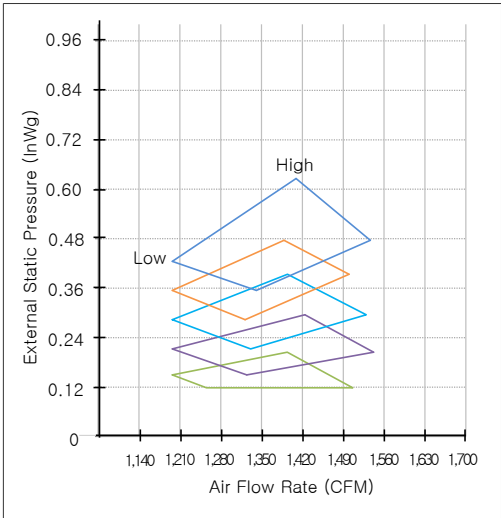
VHIC054S4-4P



Recommended operation range

Hight Static Duct

VHIC054S4-4P



External Static Pressure (inWg)	Option Code
0.12≤ SP ≤0.20(Default)	010054-135E07-209E9E-331110
0.20≤ SP ≤0.30	010054-135E4A-209E9E-331110
0.30≤ SP ≤0.40	010054-135E8D-209E9E-331110
0.40≤ SP ≤0.50	010054-135FB1-209E9E-331110
0.50≤ SP ≤0.60	010054-135FC4-209E9E-331110

Note

- Adjust option code according to the actual installation condition (external static pressure).



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