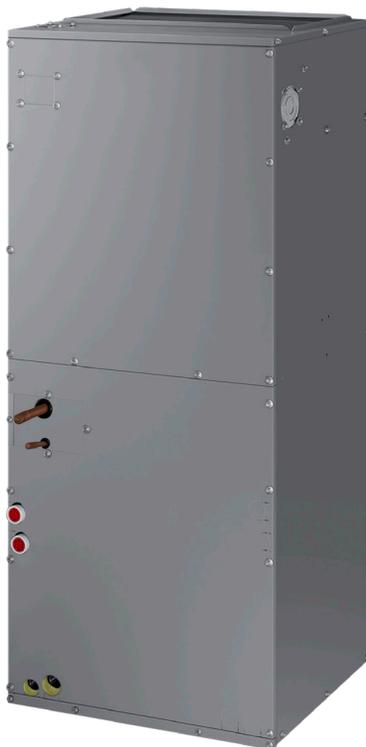


VVCD

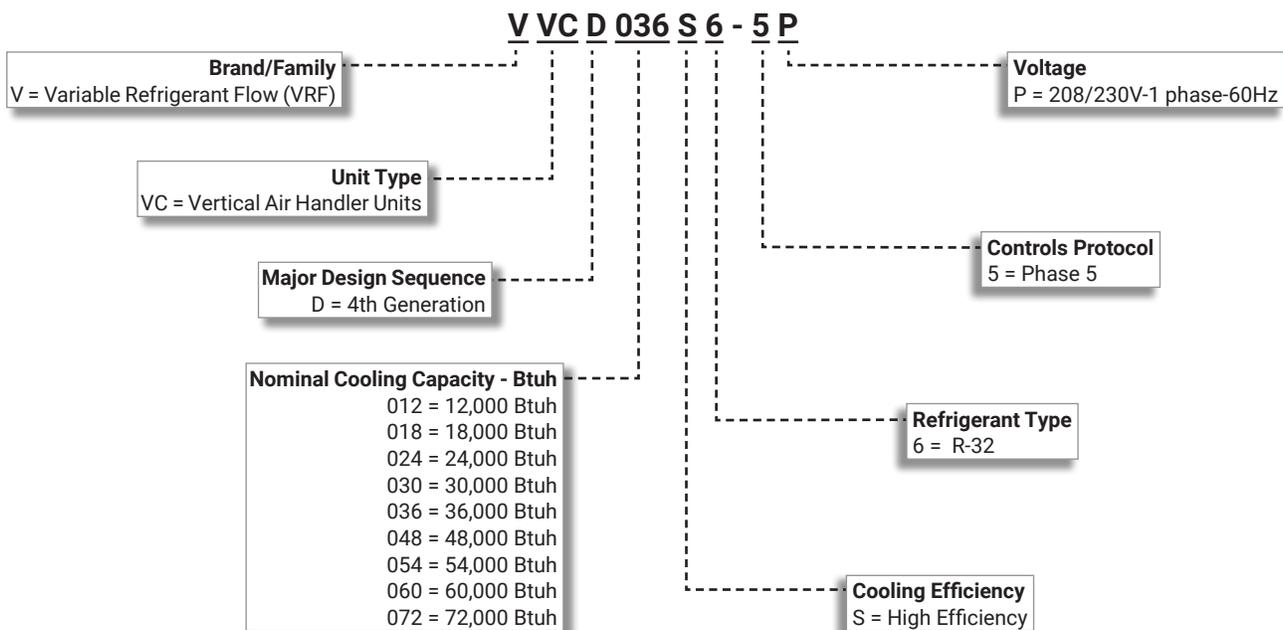
High Efficiency Vertical Air Handler Units | R-32 | 60Hz

12,000 to 72,000 Btuh

COMMERCIAL PRODUCT SPECIFICATIONS (EHB)



MODEL NUMBER IDENTIFICATION



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Specification

Vertical Air Handler

Model Name				VVCD012S6-5P	VVCD018S6-5P	VVCD024S6-5P	
Power Supply			Φ, #, V, Hz	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60	
Performance	Capacity (Nominal)	Cooling (ISO/SASO)	Btu/h	12,000	18,000	24,000	
			USRT	1.00	1.50	2.00	
		Heating	Btu/h	13,500	22,000	27,000	
			USRT	1.13	1.83	2.25	
Power	Power Input (Nominal)	Cooling	W	64	94	144	
		Heating	W	64	94	144	
	Current Input (Nominal)	Cooling	A	0.49	0.74	1.12	
		Heating	A	0.49	0.74	1.12	
	MCA	A	3.5	3.5	3.5		
	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	Motor	Type	-	BLDC	BLDC	BLDC	
		Output x n	W	290 x 1	290 x 1	290 x 1	
	Fan	Type	-	Sirocco	Sirocco	Sirocco	
	Air Flow Rate	H/M/L (UL)	CMM		10.6 / 8.1 / 6.9	15.0 / 13.2 / 12.3	20.0 / 16.0 / 12.9
			CFM		374 / 286 / 243	529 / 466 / 434	706 / 565 / 455
			l/s		177 / 135 / 115	250 / 220 / 205	333 / 267 / 215
	External Pressure	Min/Std/Max	mmAq		3.0/10/13	3.0/10/18	3.0/10/18
Pa				29.4 / 98.1 / 127.5	29.4 / 98.1 / 176.5	29.4 / 98.1 / 176.5	
In Wg				0.1 / 0.4 / 0.5	0.1 / 0.4 / 0.7	0.1 / 0.4 / 0.7	
Piping Connections	Liquid Pipe	Φ,mm		6.35	6.35	9.52	
		Φ, inch		1/4	1/4	3/8	
	Gas Pipe	Φ,mm		12.7	12.7	15.88	
		Φ, inch		1/2	1/2	5/8	
	Drain Pipe	Φ		FPT 3/4	FPT 3/4	FPT 3/4	
Field Wiring	Power Source Wire	Min.	AWG	14	14	14	
	Transmission Cable	Min.	AWG	16	16	16	
Refrigerant	Type		-	R32	R32	R32	
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	
Sound Level	Sound Pressure Level	High/Med/Low	dB(A)	38/36/34	39/37/35	41/39/37	
	Sound Power Level	Cooling		55	56	58	
Dimensions	Net Weight	kg		43.5	45.8	45.8	
		lbs		96.0	101.0	101.0	
	Shipping Weight	kg		48.1	49.9	49.9	
		lbs		106.0	110.0	110.0	
	Net Dimensions (W×H×D)	mm		445 x 1,092 x 533	445 x 1,092 x 533	445 x 1,092 x 533	
		inch		17 1/2 x 43 x 21	17 1/2 x 43 x 21	17 1/2 x 43 x 21	
	Shipping Dimensions (W×H×D)	mm		493 x 1,135 x 665	493 x 1,135 x 665	493 x 1,135 x 665	
inch			19 1/2 x 44 3/4 x 26 1/4	19 1/2 x 44 3/4 x 26 1/4	19 1/2 x 44 3/4 x 26 1/4		
Additional Accessories	Heater kit (option)		-	VHK-103C	VHK-103C VHK-105C	VHK-103C VHK-105C	

NOTE

- 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 was acquired in a dead 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. Specification

Vertical Air Handler

Model Name			VVCD030S6-5P	VVCD036S6-5P	VVCD048S6-5P	
Power Supply			Φ, #, V, Hz	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60
Performance	Capacity (Nominal)	Cooling (ISO/SASO)	Btu/h	30,000	36,000	48,000
			USRT	2.50	3.00	4.00
		Heating	Btu/h	34,000	40,000	54,000
			USRT	2.83	3.33	4.50
Power	Power Input (Nominal)	Cooling	W	218	218	290
		Heating	W	218	218	290
	Current Input (Nominal)	Cooling	A	1.58	1.58	2.07
		Heating	A	1.58	1.58	2.07
	MCA	A	5.13	5.13	7.5	
	MOP	A	15	15	15	
Heat Exchanger	Type	-	-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	-	Cu	Cu
	Fin Treatment	-	-	Green Hydrophile	Green Hydrophile	Green Hydrophile
Fan	Motor	Type	-	BLDC	BLDC	BLDC
		Output x n	W	410 x 1	410 x 1	590 x 1
	Fan	Type	-	Sirocco	Sirocco	Sirocco
	Air Flow Rate	H/M/L (UL)	CMM	29.8 / 26.4 / 21.7	29.8 / 26.4 / 21.7	39.9 / 32.3 / 26.6
			CFM	1,052 / 932 / 766	1,052 / 932 / 766	1,409 / 1,140 / 939
			l/s	497 / 440 / 361	497 / 440 / 361	665 / 538 / 443
External Pressure	Min/Std/Max	mmAq	3.0/10/25	3.0/10/25	3.0/10/25	
		Pa	29.4 / 98.1 / 245.2	29.4 / 98.1 / 245.2	29.4 / 98.1 / 245.2	
		In Wg	0.1 / 0.4 / 1.0	0.1 / 0.4 / 1.0	0.1 / 0.4 / 1.0	
Piping Connections	Liquid Pipe	Φ,mm	9.52	9.52	9.52	
		Φ, inch	3/8	3/8	3/8	
	Gas Pipe	Φ,mm	15.88	15.88	19.05	
		Φ, inch	5/8	5/8	3/4	
	Drain Pipe	Φ	FPT 3/4	FPT 3/4	FPT 3/4	
Field Wiring	Power Source Wire	Min.	AWG	14	14	14
	Transmission Cable	Min.	AWG	16	16	16
Refrigerant	Type	-	-	R32	R32	R32
	Control Method	-	-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound Level	Sound Pressure Level	High/Med/Low	dB(A)	42/40/38	42/40/38	43/41/39
	Sound Power Level	Cooling		59	59	60
Dimensions	Net Weight	kg	56.2	56.2	73.5	
		lbs	124.0	124.0	162.0	
	Shipping Weight	kg	61.2	61.2	79.8	
		lbs	135.0	135.0	176.0	
	Net Dimensions (W×H×D)	mm	533 x 1,219 x 533	533 x 1,219 x 533	622 x 1,492 x 554	
		inch	21 x 48 x 21	21 x 48 x 21	24 1/2 x 58 3/4 x 21 13/16	
Shipping Dimensions (W×H×D)	mm	590 x 1,305 x 665	590 x 1,305 x 665	676 x 1,588 x 695		
	inch	23 1/4 x 51 1/2 x 26 1/4	23 1/4 x 51 1/2 x 26 1/4	26 1/2 x 62 1/2 x 27 1/4		
Additional Accessories	Heater kit (option)	-		VHK-205C VHK-210C	VHK-205C VHK-210C	VHK-305C VHK-310C VHK-315C

NOTE

- 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 was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
- Specifications are subject to change without prior notice for product improvement.

Specification

Vertical Air Handler

Model Name				VVCD054S6-5P	VVCD060S6-5P	VVCD072S6-5P	
Power Supply			Φ, #, V, Hz	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60	
Performance	Capacity (Nominal)	Cooling (ISO/SASO)	Btu/h	54,000	60,000	72,000	
			USRT	4.50	5.00	6.00	
		Heating	Btu/h	60,000	64,000	80,000	
			USRT	5.00	5.33	6.67	
Power	Power Input (Nominal)	Cooling	W	341	380	620	
		Heating	W	341	380	620	
	Current Input (Nominal)	Cooling	A	2.42	2.74	4.20	
		Heating	A	2.42	2.74	4.20	
	MCA	A	7.5	7.5	7.5		
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	Motor	Type	-	BLDC	BLDC	BLDC	
		Output x n	W	590 x 1	590 x 1	950 x 1	
	Fan	Type	-	Sirocco	Sirocco	Sirocco	
	Air Flow Rate	H/M/L (UL)	CMM		45.4 / 36.4 / 31.2	50.1 / 39.4 / 32.1	59.8 / 48.0 / 39.3
			CFM		1,603 / 1,285 / 1,101	1,769 / 1,391 / 1,133	2,110 / 1,681 / 1,375
			l/s		757 / 607 / 520	835 / 657 / 535	1,005 / 801 / 655
	External Pressure	Min/Std/Max	mmAq		3.0/10/25	3.0/10/25	3 / 10 / 25
Pa				29.4 / 98.1 / 245.2	29.4 / 98.1 / 245.2	24.9 / 99.5 / 248.9	
In Wg				0.1 / 0.4 / 1.0	0.1 / 0.4 / 1.0	0.1 / 0.4 / 1.0	
Piping Connections	Liquid Pipe	Φ,mm		9.52	9.52	9.52	
		Φ, inch		3/8	3/8	3/8	
		Φ,mm		19.05	19.05	19.05	
	Gas Pipe	Φ, inch		3/4	3/4	3/4	
		Drain Pipe	Φ		FPT 3/4	FPT 3/4	FPT 3/4
Field Wiring	Power Source Wire	Min.	AWG	14	14	14	
	Transmission Cable	Min.	AWG	16	16	16	
Refrigerant	Type	-	-	R32	R32	R32	
	Control Method	-	-	EEV INCLUDED	EEV INCLUDED	EEV EXCLUDED	
Sound Level	Sound Pressure Level	High/Med/Low	dB(A)	43/41/39	46/44/42	50 / 48 / 46	
	Sound Power Level	Cooling		60	63	67	
Dimensions	Net Weight	kg		73.5	79.4	239.0	
		lbs		162.0	175.0	108.4	
	Shipping Weight	kg		79.8	86.2	250.0	
		lbs		176.0	190.0	113.4	
	Net Dimensions (W×H×D)	mm		622 x 1,492 x 554	622 x 1,492 x 554	622 x 1,492 x 554	
		inch		24 1/2 x 58 3/4 x 21 13/16	24 1/2 x 58 3/4 x 21 13/16	24 1/2 x 58 3/4 x 21 13/16	
	Shipping Dimensions (W×H×D)	mm		676 x 1,588 x 695	676 x 1,588 x 695	676 x 1,588 x 695	
inch			26 1/2 x 62 1/2 x 27 1/4	26 1/2 x 62 1/2 x 27 1/4	26 1/2 x 62 1/2 x 27 1/4		
Additional Accessories	Heater kit (option)	-	-	VHK-305C VHK-310C VHK-315C	VHK-305C VHK-310C VHK-315C VHK-320C	VHK-305C VHK-310C VHK-315C VHK-320C	

NOTE

- 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 was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
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Capacity Table

Vertical Air Handler (Cooling)

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor Temperature (°F, DB)	Indoor temperature(°F, WB)													
		57		61		64		67		70		72		75	
		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	
012	50	8.3	6.3	9.7	7.3	11.3	7.9	12.0	8.2	12.3	8.2	13.3	8.2	14.3	7.9
	54	8.3	6.3	9.7	7.3	11.3	7.9	12.0	8.2	12.3	8.2	13.3	8.2	14.3	7.9
	58	8.3	6.3	9.7	7.3	11.3	7.9	12.0	8.2	12.3	8.2	13.3	8.2	14.3	7.9
	60	8.3	6.3	9.7	7.3	11.3	7.9	12.0	8.2	12.3	8.2	13.3	8.2	14.3	7.9
	64	8.3	6.3	9.7	7.3	11.3	7.9	12.0	8.2	12.3	8.2	13.3	8.2	14.0	7.6
	67	8.3	6.3	9.7	7.3	11.3	7.9	12.0	8.2	12.3	8.2	13.3	8.2	14.0	7.6
	70	8.3	6.3	9.7	7.3	11.3	7.9	12.0	8.2	12.3	8.2	13.3	8.2	14.0	7.6
	73	8.3	6.3	9.7	7.3	11.3	7.9	12.0	8.2	12.3	8.2	13.3	8.2	14.0	7.6
	77	8.3	6.3	9.7	7.3	11.3	7.9	12.0	8.2	12.3	8.2	13.3	8.2	14.0	7.6
	80	8.3	6.3	9.7	7.3	11.3	7.9	12.0	8.2	12.3	8.2	13.3	8.2	14.0	7.6
	84	8.3	6.3	9.7	7.3	11.3	7.9	12.0	8.2	12.3	8.2	13.3	8.2	14.0	7.6
	88	8.3	6.3	9.7	7.3	11.3	7.9	12.0	8.2	12.3	8.2	13.3	8.2	14.0	7.6
	92	8.3	6.3	9.7	7.3	11.3	7.9	12.0	8.2	12.3	8.2	13.3	8.2	14.0	7.6
	95	8.3	6.3	9.7	7.3	11.3	7.9	12.0	8.2	12.3	8.2	13.3	8.2	14.0	7.6
	99	8.3	6.3	9.7	7.3	11.3	7.9	12.0	8.2	12.3	8.2	13.0	7.9	14.0	7.6
	103	8.3	6.3	9.7	7.3	11.3	7.9	12.0	8.2	12.3	8.2	13.0	7.9	13.7	7.3
107	8.3	6.3	9.7	7.3	11.3	7.8	11.8	8.1	12.2	8.1	12.8	7.7	13.3	7.1	
111	8.3	6.3	9.7	7.3	10.9	7.6	11.5	7.8	11.8	7.9	12.3	7.4	12.9	6.8	
115	8.3	6.3	9.6	7.2	10.8	7.5	11.1	7.6	11.5	7.6	11.9	7.2	12.5	6.6	
118	8.2	6.2	9.5	7.1	10.6	7.4	10.8	7.4	11.3	7.5	11.5	7.0	12.1	6.4	
018	50	12.5	9.8	14.8	11.3	17.0	12.0	18.0	12.6	18.6	12.6	20.3	12.9	21.5	12.3
	54	12.5	9.8	14.8	11.3	17.0	12.0	18.0	12.6	18.6	12.6	20.3	12.9	21.5	12.3
	58	12.5	9.8	14.8	11.3	17.0	12.0	18.0	12.6	18.6	12.6	19.9	12.6	21.5	12.3
	60	12.5	9.8	14.8	11.3	17.0	12.0	18.0	12.6	18.6	12.6	19.9	12.6	21.2	12.0
	64	12.5	9.8	14.8	11.3	17.0	12.0	18.0	12.6	18.6	12.6	19.9	12.6	21.2	12.0
	67	12.5	9.8	14.8	11.3	17.0	12.0	18.0	12.6	18.6	12.6	19.9	12.6	21.2	12.0
	70	12.5	9.8	14.8	11.3	17.0	12.0	18.0	12.6	18.6	12.6	19.9	12.6	21.2	12.0
	73	12.5	9.8	14.8	11.3	17.0	12.0	18.0	12.6	18.6	12.6	19.9	12.6	21.2	12.0
	77	12.5	9.8	14.8	11.3	17.0	12.0	18.0	12.6	18.6	12.6	19.9	12.6	21.2	12.0
	80	12.5	9.8	14.8	11.3	17.0	12.0	18.0	12.6	18.6	12.6	19.9	12.6	21.2	12.0
	84	12.5	9.8	14.8	11.3	17.0	12.0	18.0	12.6	18.6	12.6	19.9	12.6	21.2	12.0
	88	12.5	9.8	14.8	11.3	17.0	12.0	18.0	12.6	18.6	12.6	19.9	12.6	21.2	12.0
	92	12.5	9.8	14.8	11.3	17.0	12.0	18.0	12.6	18.6	12.6	19.9	12.6	21.2	12.0
	95	12.5	9.8	14.8	11.3	17.0	12.0	18.0	12.6	18.6	12.6	19.9	12.6	21.2	12.0
	99	12.5	9.8	14.8	11.3	17.0	12.0	18.0	12.6	18.6	12.6	19.6	12.3	20.9	11.7
	103	12.5	9.8	14.8	11.3	17.0	12.0	18.0	12.6	18.6	12.6	19.6	12.3	20.6	11.3
107	12.5	9.8	14.8	11.3	16.9	11.9	17.8	12.4	18.4	12.5	19.3	12.1	20.1	11.1	
111	12.5	9.8	14.8	11.3	16.5	11.6	17.2	12.0	17.9	12.1	18.5	11.6	19.4	10.7	
115	12.5	9.8	14.6	11.2	16.2	11.4	16.6	11.6	17.4	11.7	17.9	11.2	18.8	10.4	
118	12.4	9.6	14.5	11.1	15.9	11.2	16.2	11.3	17.0	11.5	17.4	10.9	18.2	10.0	
024	50	16.6	13.5	19.6	15.7	22.6	16.4	24.0	17.0	25.0	17.6	27.0	17.9	28.7	17.0
	54	16.6	13.5	19.6	15.7	22.6	16.4	24.0	17.0	25.0	17.6	26.7	17.6	28.7	17.0
	58	16.6	13.5	19.6	15.7	22.6	16.4	24.0	17.0	25.0	17.6	26.7	17.6	28.7	17.0
	60	16.6	13.5	19.6	15.7	22.6	16.4	24.0	17.0	25.0	17.6	26.7	17.6	28.4	16.7
	64	16.6	13.5	19.6	15.7	22.6	16.4	24.0	17.0	25.0	17.6	26.7	17.6	28.4	16.7
	67	16.6	13.5	19.6	15.7	22.6	16.4	24.0	17.0	25.0	17.6	26.7	17.6	28.4	16.7
	70	16.6	13.5	19.6	15.7	22.6	16.4	24.0	17.0	25.0	17.6	26.7	17.6	28.4	16.7
	73	16.6	13.5	19.6	15.7	22.6	16.4	24.0	17.0	25.0	17.6	26.7	17.6	28.4	16.7
	77	16.6	13.5	19.6	15.7	22.6	16.4	24.0	17.0	25.0	17.6	26.7	17.6	28.4	16.7
	80	16.6	13.5	19.6	15.7	22.6	16.4	24.0	17.0	25.0	17.6	26.7	17.6	28.4	16.7
	84	16.6	13.5	19.6	15.7	22.6	16.4	24.0	17.0	25.0	17.6	26.7	17.6	28.4	16.7
	88	16.6	13.5	19.6	15.7	22.6	16.4	24.0	17.0	25.0	17.6	26.7	17.6	28.4	16.7
	92	16.6	13.5	19.6	15.7	22.6	16.4	24.0	17.0	25.0	17.6	26.7	17.6	28.4	16.7
	95	16.6	13.5	19.6	15.7	22.6	16.4	24.0	17.0	25.0	17.6	26.7	17.6	28.4	16.7
	99	16.6	13.5	19.6	15.7	22.6	16.4	24.0	17.0	24.7	17.3	26.4	17.3	27.7	16.4
	103	16.6	13.5	19.6	15.7	22.6	16.4	24.0	17.0	24.7	17.3	26.0	17.0	27.4	16.1
107	16.6	13.5	19.6	15.7	22.5	16.3	23.7	16.8	24.4	17.1	25.6	16.7	26.7	15.7	
111	16.6	13.5	19.6	15.7	21.9	15.8	22.9	16.2	23.7	16.6	24.6	16.0	25.8	15.1	
115	16.6	13.5	19.4	15.6	21.5	15.6	22.2	15.7	23.0	16.1	23.8	15.5	25.1	14.7	
118	16.4	13.4	19.2	15.4	21.2	15.3	21.6	15.3	22.5	15.8	23.1	15.1	24.2	14.2	

Capacity Table

Vertical Air Handler (Cooling)

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor Temperature (°F, DB)	Indoor temperature(°F, WB)													
		57		61		64		67		70		72		75	
		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
030	50	20.7	17.1	24.3	19.5	28.0	20.8	30.0	21.4	31.3	22.0	33.7	22.0	36.0	22.0
	54	20.7	17.1	24.3	19.5	28.0	20.8	30.0	21.4	31.3	22.0	33.7	22.0	36.0	22.0
	58	20.7	17.1	24.3	19.5	28.0	20.8	30.0	21.4	31.0	21.7	33.3	21.7	35.7	21.4
	60	20.7	17.1	24.3	19.5	28.0	20.8	30.0	21.4	31.0	21.7	33.3	21.7	35.7	21.4
	64	20.7	17.1	24.3	19.5	28.0	20.8	30.0	21.4	31.0	21.7	33.3	21.7	35.3	21.1
	67	20.7	17.1	24.3	19.5	28.0	20.8	30.0	21.4	31.0	21.7	33.3	21.7	35.3	21.1
	70	20.7	17.1	24.3	19.5	28.0	20.8	30.0	21.4	31.0	21.7	33.3	21.7	35.3	21.1
	73	20.7	17.1	24.3	19.5	28.0	20.8	30.0	21.4	31.0	21.7	33.3	21.7	35.3	21.1
	77	20.7	17.1	24.3	19.5	28.0	20.8	30.0	21.4	31.0	21.7	33.3	21.7	35.3	21.1
	80	20.7	17.1	24.3	19.5	28.0	20.8	30.0	21.4	31.0	21.7	33.3	21.7	35.3	21.1
	84	20.7	17.1	24.3	19.5	28.0	20.8	30.0	21.4	31.0	21.7	33.3	21.7	35.3	21.1
	88	20.7	17.1	24.3	19.5	28.0	20.8	30.0	21.4	31.0	21.7	33.3	21.7	35.3	21.1
	92	20.7	17.1	24.3	19.5	28.0	20.8	30.0	21.4	31.0	21.7	33.3	21.7	35.3	21.1
	95	20.7	17.1	24.3	19.5	28.0	20.8	30.0	21.4	31.0	21.7	33.3	21.7	35.3	21.1
	99	20.7	17.1	24.3	19.5	28.0	20.8	30.0	21.4	31.0	21.7	33.0	21.4	34.7	20.8
103	20.7	17.1	24.3	19.5	28.0	20.8	30.0	21.4	30.7	21.4	32.3	21.1	34.0	20.5	
107	20.7	17.1	24.3	19.5	27.8	20.6	29.6	21.1	30.3	21.1	31.8	20.7	33.1	20.0	
111	20.7	17.1	24.3	19.5	27.0	20.1	28.6	20.4	29.4	20.5	30.5	19.9	32.0	19.3	
115	20.7	17.1	24.1	19.3	26.6	19.7	27.7	19.8	28.6	19.9	29.5	19.3	31.1	18.7	
118	20.4	16.8	23.8	19.1	26.2	19.4	27.0	19.3	28.0	19.5	28.7	18.7	30.1	18.1	
036	50	24.8	20.2	29.3	22.8	33.8	24.3	36.0	25.5	37.3	26.1	40.2	26.4	43.1	25.5
	54	24.8	20.2	29.3	22.8	33.8	24.3	36.0	25.5	37.3	26.1	40.2	26.4	43.1	25.5
	58	24.8	20.2	29.3	22.8	33.8	24.3	36.0	25.5	37.3	26.1	40.2	26.4	43.1	25.5
	60	24.8	20.2	29.3	22.8	33.8	24.3	36.0	25.5	37.3	26.1	40.2	26.4	42.8	25.2
	64	24.8	20.2	29.3	22.8	33.8	24.3	36.0	25.5	37.3	26.1	40.2	26.4	42.8	25.2
	67	24.8	20.2	29.3	22.8	33.8	24.3	36.0	25.5	37.3	26.1	39.9	26.1	42.4	25.2
	70	24.8	20.2	29.3	22.8	33.8	24.3	36.0	25.5	37.3	26.1	39.9	26.1	42.4	25.2
	73	24.8	20.2	29.3	22.8	33.8	24.3	36.0	25.5	37.3	26.1	39.9	26.1	42.4	25.2
	77	24.8	20.2	29.3	22.8	33.8	24.3	36.0	25.5	37.3	26.1	39.9	26.1	42.4	25.2
	80	24.8	20.2	29.3	22.8	33.8	24.3	36.0	25.5	37.3	26.1	39.9	26.1	42.4	25.2
	84	24.8	20.2	29.3	22.8	33.8	24.3	36.0	25.5	37.3	26.1	39.9	26.1	42.4	25.2
	88	24.8	20.2	29.3	22.8	33.8	24.3	36.0	25.5	37.3	26.1	39.9	26.1	42.4	25.2
	92	24.8	20.2	29.3	22.8	33.8	24.3	36.0	25.5	37.3	26.1	39.9	26.1	42.4	25.2
	95	24.8	20.2	29.3	22.8	33.8	24.3	36.0	25.5	37.3	26.1	39.9	25.8	42.4	25.2
	99	24.8	20.2	29.3	22.8	33.8	24.3	36.0	25.5	37.3	26.1	39.9	26.4	42.4	25.2
103	24.8	20.2	29.3	22.8	33.8	24.3	36.0	25.5	37.3	26.1	39.5	26.1	41.8	24.9	
107	24.8	20.2	29.3	22.8	33.5	24.1	35.5	25.2	36.8	25.8	38.8	25.6	40.7	24.3	
111	24.8	20.2	29.3	22.8	32.6	23.5	34.4	24.3	35.8	25.1	37.3	24.6	39.3	23.4	
115	24.8	20.2	29.0	22.6	32.1	23.1	33.3	23.6	34.7	24.3	36.1	23.8	38.3	22.8	
118	24.4	19.9	28.6	22.3	31.5	22.7	32.4	22.9	34.0	23.8	35.1	23.1	36.9	22.0	
048	50	33.3	26.2	39.1	29.6	44.9	32.1	48.0	33.0	50.1	33.3	53.8	33.6	57.6	33.3
	54	33.3	26.2	39.1	29.6	44.9	32.1	48.0	33.0	49.7	33.0	53.5	33.3	57.3	33.0
	58	33.3	26.2	39.1	29.6	44.9	32.1	48.0	33.0	49.7	33.0	53.5	33.3	57.3	33.0
	60	33.3	26.2	39.1	29.6	44.9	32.1	48.0	33.0	49.7	33.0	53.5	33.3	56.9	32.7
	64	33.3	26.2	39.1	29.6	44.9	32.1	48.0	33.0	49.7	33.0	53.1	33.0	56.9	32.7
	67	33.3	26.2	39.1	29.6	44.9	32.1	48.0	33.0	49.7	33.0	53.1	33.0	56.6	32.4
	70	33.3	26.2	39.1	29.6	44.9	32.1	48.0	33.0	49.7	33.0	53.1	33.0	56.6	32.4
	73	33.3	26.2	39.1	29.6	44.9	32.1	48.0	33.0	49.7	33.0	53.1	33.0	56.6	32.4
	77	33.3	26.2	39.1	29.6	44.9	32.1	48.0	33.0	49.7	33.0	53.1	33.0	56.6	32.4
	80	33.3	26.2	39.1	29.6	44.9	32.1	48.0	33.0	49.7	33.0	53.1	33.0	56.6	32.4
	84	33.3	26.2	39.1	29.6	44.9	32.1	48.0	33.0	49.7	33.0	53.1	33.0	56.6	32.4
	88	33.3	26.2	39.1	29.6	44.9	32.1	48.0	33.0	49.7	33.0	53.1	33.0	56.6	32.4
	92	33.3	26.2	39.1	29.6	44.9	32.1	48.0	33.0	49.7	33.0	53.1	33.0	56.6	32.4
	95	33.3	26.2	39.1	29.6	44.9	32.1	48.0	33.0	49.7	33.0	53.1	33.0	56.6	32.4
	99	33.3	26.2	39.1	29.6	44.9	32.1	48.0	33.0	49.7	33.0	52.8	32.7	55.9	32.1
103	33.3	26.2	39.1	29.6	44.9	32.1	48.0	33.0	49.4	32.7	51.8	32.1	54.5	31.5	
107	33.3	26.2	39.1	29.6	44.6	31.8	47.4	32.6	48.8	32.3	50.9	31.5	53.1	30.7	
111	33.3	26.2	39.1	29.6	43.4	31.0	45.8	31.5	47.4	31.4	48.9	30.3	51.3	29.6	
115	33.3	26.2	38.7	29.3	42.7	30.5	44.4	30.5	46.0	30.5	47.3	29.3	49.9	28.8	
118	32.8	25.9	38.2	28.9	42.0	30.0	43.2	29.7	45.1	29.8	45.9	28.4	48.2	27.8	

Capacity Table

Vertical Air Handler (Cooling)

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor Temperature (°F, DB)	Indoor temperature(°F, WB)													
		57		61		64		67		70		72		75	
		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
054	50	37.4	30.8	44.0	34.8	50.5	37.7	54.0	38.8	56.3	39.2	60.6	39.5	64.8	39.2
	54	37.4	30.8	44.0	34.8	50.5	37.7	54.0	38.8	55.9	38.8	60.2	39.2	64.4	38.8
	58	37.4	30.8	44.0	34.8	50.5	37.7	54.0	38.8	55.9	38.8	60.2	39.2	64.4	38.8
	60	37.4	30.8	44.0	34.8	50.5	37.7	54.0	38.8	55.9	38.8	60.2	39.2	64.0	38.4
	64	37.4	30.8	44.0	34.8	50.5	37.7	54.0	38.8	55.9	38.8	59.8	38.8	64.0	38.4
	67	37.4	30.8	44.0	34.8	50.5	37.7	54.0	38.8	55.9	38.8	59.8	38.8	63.6	38.1
	70	37.4	30.8	44.0	34.8	50.5	37.7	54.0	38.8	55.9	38.8	59.8	38.8	63.6	38.1
	73	37.4	30.8	44.0	34.8	50.5	37.7	54.0	38.8	55.9	38.8	59.8	38.8	63.6	38.1
	77	37.4	30.8	44.0	34.8	50.5	37.7	54.0	38.8	55.9	38.8	59.8	38.8	63.6	38.1
	80	37.4	30.8	44.0	34.8	50.5	37.7	54.0	38.8	55.9	38.8	59.8	38.8	63.6	38.1
	84	37.4	30.8	44.0	34.8	50.5	37.7	54.0	38.8	55.9	38.8	59.8	38.8	63.6	38.1
	88	37.4	30.8	44.0	34.8	50.5	37.7	54.0	38.8	55.9	38.8	59.8	38.8	63.6	38.1
	92	37.4	30.8	44.0	34.8	50.5	37.7	54.0	38.8	55.9	38.8	59.8	38.8	63.6	38.1
	95	37.4	30.8	44.0	34.8	50.5	37.7	54.0	38.8	55.9	38.8	59.8	38.8	63.6	38.1
	99	37.4	30.8	44.0	34.8	50.5	37.7	54.0	38.8	55.9	38.8	59.4	38.4	62.9	37.7
	103	37.4	30.8	44.0	34.8	50.5	37.7	54.0	38.8	55.5	38.4	58.2	37.7	61.3	37.0
	107	37.4	30.8	44.0	34.8	50.2	37.4	53.3	38.3	54.9	38.0	57.2	37.1	59.8	36.1
	111	37.4	30.8	44.0	34.8	48.8	36.4	51.6	37.0	53.3	36.9	55.0	35.6	57.7	34.8
115	37.4	30.8	43.5	34.5	48.0	35.8	49.9	35.9	51.8	35.8	53.2	34.4	56.2	33.9	
118	36.9	30.4	43.0	34.0	47.2	35.2	48.6	34.9	50.7	35.1	51.7	33.4	54.2	32.7	
060	50	42.3	33.9	50.1	37.8	56.8	40.8	60.0	42.0	64.0	43.5	70.7	44.5	74.7	44.9
	54	42.3	33.9	50.1	37.8	56.8	40.8	60.0	42.0	64.0	43.7	70.7	44.7	74.7	45.2
	58	42.3	33.9	50.1	37.8	56.8	40.8	60.0	42.0	64.0	43.7	70.7	44.7	74.7	44.5
	60	42.3	33.9	50.1	37.8	56.8	40.8	60.0	42.0	64.0	43.7	70.7	44.7	74.7	44.9
	64	42.3	33.9	50.1	37.8	56.8	40.8	60.0	42.0	64.0	43.7	70.7	44.7	74.5	44.5
	67	42.3	33.9	50.1	37.8	56.8	40.8	60.0	42.0	64.0	43.7	70.7	44.7	73.4	44.2
	70	42.3	33.9	50.1	37.8	56.8	40.8	60.0	42.0	64.0	43.7	70.7	44.7	73.7	44.2
	73	42.3	33.9	50.1	37.8	56.8	40.8	60.0	42.0	64.0	43.7	70.7	44.9	72.6	43.5
	77	42.3	33.9	50.1	37.8	56.8	40.8	60.0	42.0	64.0	43.7	70.7	44.7	72.3	43.7
	80	42.3	33.9	50.1	37.8	56.8	40.8	60.0	42.0	64.0	43.7	70.7	44.7	72.3	43.7
	84	42.3	33.9	50.1	37.8	56.8	40.8	60.0	42.0	64.0	43.7	70.7	44.7	72.3	43.7
	88	42.3	33.9	50.1	37.8	56.8	40.8	60.0	42.0	64.0	43.7	70.7	44.9	72.3	43.7
	92	42.3	33.9	50.1	37.8	56.8	40.8	60.0	42.0	64.0	43.7	70.7	45.4	72.3	43.7
	95	42.3	33.9	50.1	37.8	56.8	40.8	60.0	42.0	64.0	43.5	70.7	45.4	72.3	44.2
	99	41.5	33.4	49.3	37.3	56.5	40.5	60.0	42.0	63.5	43.5	69.6	44.7	71.3	43.2
	103	41.0	33.2	48.5	36.8	56.5	40.5	59.7	41.8	63.5	43.5	68.8	45.2	70.2	43.0
	107	41.0	33.2	48.5	36.8	56.1	40.2	58.9	41.2	62.7	43.0	67.6	44.4	68.4	41.9
	111	41.0	33.2	48.5	36.8	54.6	39.1	57.0	39.9	60.9	41.7	65.0	42.6	66.1	40.5
115	41.0	33.2	48.0	36.5	53.7	38.5	55.2	38.6	59.2	40.5	62.9	41.3	64.3	39.4	
118	40.5	32.7	47.4	36.0	52.8	37.9	53.8	37.6	58.0	39.7	61.1	40.1	62.0	38.0	
072	50	50.8	42.0	60.1	46.8	68.1	50.5	72.0	52.0	76.8	53.8	84.9	55.0	89.7	55.6
	54	50.8	42.0	60.1	46.8	68.1	50.5	72.0	52.0	76.8	54.1	84.9	55.3	89.7	56.0
	58	50.8	42.0	60.1	46.8	68.1	50.5	72.0	52.0	76.8	54.1	84.9	55.3	89.7	55.0
	60	50.8	42.0	60.1	46.8	68.1	50.5	72.0	52.0	76.8	54.1	84.9	55.3	89.7	55.6
	64	50.8	42.0	60.1	46.8	68.1	50.5	72.0	52.0	76.8	54.1	84.9	55.3	89.4	55.0
	67	50.8	42.0	60.1	46.8	68.1	50.5	72.0	52.0	76.8	54.1	84.9	55.3	88.1	54.7
	70	50.8	42.0	60.1	46.8	68.1	50.5	72.0	52.0	76.8	54.1	84.9	55.3	88.4	54.7
	73	50.8	42.0	60.1	46.8	68.1	50.5	72.0	52.0	76.8	54.1	84.9	55.6	87.1	53.8
	77	50.8	42.0	60.1	46.8	68.1	50.5	72.0	52.0	76.8	54.1	84.9	55.3	86.8	54.1
	80	50.8	42.0	60.1	46.8	68.1	50.5	72.0	52.0	76.8	54.1	84.9	55.3	86.8	54.1
	84	50.8	42.0	60.1	46.8	68.1	50.5	72.0	52.0	76.8	54.1	84.9	55.3	86.8	54.1
	88	50.8	42.0	60.1	46.8	68.1	50.5	72.0	52.0	76.8	54.1	84.9	55.6	86.8	54.1
	92	50.8	42.0	60.1	46.8	68.1	50.5	72.0	52.0	76.8	54.1	84.9	56.3	86.8	54.1
	95	50.8	42.0	60.1	46.8	68.1	50.5	72.0	52.0	76.8	53.8	84.9	56.3	86.8	54.7
	99	49.8	41.4	59.1	46.2	67.8	50.2	72.0	52.0	76.2	53.8	83.6	55.3	85.5	53.5
	103	49.2	41.1	58.2	45.6	67.8	50.2	71.7	51.7	76.2	53.8	82.6	56.0	84.2	53.2
	107	49.2	41.1	58.2	45.6	67.3	49.8	70.7	51.0	75.3	53.2	81.2	55.0	82.1	51.9
	111	49.2	41.1	58.2	45.6	65.5	48.5	68.4	49.4	73.1	51.7	77.9	52.8	79.3	50.1
115	49.2	41.1	57.6	45.2	64.4	47.7	66.3	47.8	71.0	50.2	75.4	51.1	77.1	48.7	
118	48.6	40.5	56.9	44.6	63.4	46.9	64.5	46.5	69.6	49.1	73.3	49.6	74.4	47.0	



Capacity Table

Vertical Air Handler(Heating)

TC : Total Capacity

Model	Outdoor Temperature (°F)		Indoor temperature(°F, DB)				
			61	65	70	72	75
	DB	WB	TC	TC	TC	TC	TC
012	-12.6	-13	7.0	7.6	7.2	7.2	7.8
	-7.1	-8	7.7	7.9	7.6	7.6	7.8
	-4	-4	8.1	8.1	7.8	7.8	7.8
	-2	-2	8.4	8.2	7.9	7.9	7.8
	2	1	8.8	8.5	8.2	8.2	7.8
	6	5	9.1	8.8	8.5	8.5	8.2
	10	9	9.4	9.0	9.0	8.7	8.6
	13	12	9.7	9.6	9.6	9.3	9.3
	17	15	9.9	9.9	9.8	9.6	9.5
	19	18	10.1	10.1	10.0	9.8	9.6
	23	21	10.5	10.5	10.1	10.1	9.8
	26	24	11.1	10.8	10.8	10.5	10.1
	30	28	11.5	11.5	11.1	10.8	10.5
	35	32	12.2	12.2	11.8	11.5	10.8
	39	36	12.8	12.5	12.5	11.8	11.5
	44	40	13.2	13.2	12.8	12.2	11.5
	018	-12.6	-13	13.1	12.2	12.7	12.4
-7.1		-8	13.4	12.9	13.1	12.7	12.7
-4		-4	13.6	13.3	13.3	12.9	12.9
-2		-2	13.8	13.5	13.4	13.1	13.1
2		1	14.1	14.0	13.7	13.3	13.3
6		5	14.7	14.4	14.0	13.7	13.4
10		9	15.2	14.9	14.5	14.5	14.1
13		12	15.9	15.8	15.5	15.2	15.1
17		15	16.2	16.2	15.9	15.5	15.4
19		18	16.6	16.4	16.2	15.9	15.5
23		21	17.1	16.8	16.8	16.4	15.7
26		24	18.2	17.8	17.5	17.1	16.4
30		28	18.9	18.5	18.5	17.8	17.1
35		32	19.9	19.6	19.2	18.5	17.5
39		36	20.6	20.6	20.3	19.6	18.5
44		40	21.7	21.3	21.0	19.9	18.5
024		-12.6	-13	15.5	16.0	15.7	15.3
	-7.1	-8	16.1	16.3	16.0	15.7	15.7
	-4	-4	16.6	16.6	16.2	15.9	15.9
	-2	-2	16.8	16.7	16.3	16.0	16.0
	2	1	17.3	17.0	16.6	16.3	16.2
	6	5	18.0	17.7	17.3	16.7	16.3
	10	9	18.7	18.4	18.0	17.6	17.3
	13	12	19.7	19.3	19.0	18.6	18.6
	17	15	20.1	19.7	19.4	19.1	19.0
	19	18	20.4	20.1	19.7	19.4	19.2
	23	21	20.9	20.6	20.3	19.9	19.6
	26	24	21.9	21.9	21.6	20.9	20.3
	30	28	23.3	23.0	22.6	21.6	20.9
	35	32	24.3	24.0	23.6	22.6	21.6
	39	36	25.7	25.3	24.6	24.0	23.0
	44	40	26.7	26.3	26.0	24.3	23.0
	47	43	27.7	27.3	27.0	25.0	23.0
51	47	28.7	27.7	27.0	25.0	23.0	
54	50	29.4	28.4	27.0	25.0	23.0	
57	53	30.4	28.7	27.0	25.0	23.0	
60	56	31.1	29.0	27.0	25.0	23.0	

Capacity Table

Vertical Air Handler (Heating)

TC : Total Capacity

Model	Outdoor Temperature (°F)		Indoor temperature(°F, DB)				
			61	65	70	72	75
	DB	WB	TC	TC	TC	TC	TC
030	-12.6	-13	18.8	18.8	19.0	18.6	19.2
	-7.1	-8	19.8	19.8	19.7	19.3	19.5
	-4	-4	20.5	20.5	20.1	19.8	19.7
	-2	-2	20.8	20.8	20.3	20.0	19.9
	2	1	21.6	21.5	20.8	20.5	20.1
	6	5	22.9	22.2	21.6	20.9	20.6
	10	9	23.6	23.2	22.5	22.1	21.8
	13	12	24.6	24.2	23.8	23.5	23.4
	17	15	25.1	24.8	24.4	24.0	23.9
	19	18	25.7	25.3	25.0	24.5	24.1
	23	21	26.5	26.2	25.8	25.2	24.5
	26	24	27.9	27.5	27.2	26.2	25.5
	30	28	29.2	28.9	28.6	27.5	26.2
	35	32	30.6	30.3	29.9	28.6	27.2
	39	36	32.0	31.6	31.3	29.9	28.6
	44	40	33.7	33.0	32.6	30.6	28.6
	47	43	35.0	34.3	34.0	31.3	28.6
	51	47	36.0	35.0	34.0	31.3	28.6
54	50	37.1	35.7	34.0	31.3	28.6	
57	53	38.1	36.0	34.0	31.3	28.6	
60	56	39.4	36.7	34.0	31.3	28.6	
036	-12.6	-13	20.6	21.6	21.8	22.3	22.8
	-7.1	-8	22.5	22.9	22.8	23.0	23.2
	-4	-4	23.8	23.8	23.4	23.4	23.4
	-2	-2	24.4	24.2	23.7	23.6	23.5
	2	1	25.8	25.1	24.5	24.1	23.7
	6	5	27.0	26.1	25.4	24.8	24.2
	10	9	27.9	27.2	26.6	25.9	25.5
	13	12	29.1	28.5	28.1	27.7	27.4
	17	15	29.7	29.1	28.7	28.4	28.0
	19	18	30.2	29.8	29.3	28.8	28.3
	23	21	31.0	30.7	30.1	29.4	28.8
	26	24	32.6	32.3	31.7	30.7	29.8
	30	28	34.2	33.9	33.6	32.3	31.0
	35	32	36.2	35.5	35.5	33.6	32.0
	39	36	37.8	37.1	36.8	35.2	33.9
	44	40	39.4	39.0	38.4	36.2	33.9
	47	43	41.3	40.6	40.0	36.8	33.9
	51	47	42.6	41.3	40.0	36.8	33.9
54	50	43.8	41.9	40.0	36.8	33.9	
57	53	44.8	42.6	40.0	36.8	33.9	
60	56	46.1	43.2	40.0	36.8	33.9	
048	-12.6	-13	28.8	29.9	30.6	30.6	30.8
	-7.1	-8	30.8	31.3	31.3	31.3	31.2
	-4	-4	32.2	32.2	31.8	31.8	31.4
	-2	-2	32.9	32.6	32.0	32.0	31.5
	2	1	34.4	33.7	32.7	32.5	31.8
	6	5	36.3	35.3	34.3	33.3	32.3
	10	9	37.5	36.7	36.0	35.2	34.2
	13	12	39.1	38.6	38.0	37.5	36.8
	17	15	39.9	39.5	38.9	38.4	37.7
	19	18	40.7	40.2	39.7	39.0	38.1
	23	21	41.9	41.2	40.8	39.8	38.8
	26	24	44.2	43.5	42.9	41.5	40.5
	30	28	46.6	45.9	45.2	43.5	41.9
	35	32	48.6	47.9	47.3	45.2	43.2
	39	36	51.0	50.3	49.6	47.6	45.6
	44	40	53.3	52.7	51.6	48.6	45.6
	47	43	55.7	54.7	54.0	50.0	45.6
	51	47	57.4	55.7	54.0	50.0	45.6
54	50	59.1	56.4	54.0	50.0	45.6	
57	53	60.8	57.4	54.0	50.0	45.6	
60	56	62.4	58.1	54.0	50.0	45.6	

Capacity Table

Vertical Air Handler (Heating)

TC : Total Capacity

Model	Outdoor Temperature (°F)		Indoor temperature(°F, DB)				
			61	65	70	72	75
	DB	WB	TC	TC	TC	TC	TC
054	-12.6	-13	32.0	33.2	34.1	34.1	34.3
	-7.1	-8	34.3	34.7	34.8	34.8	34.7
	-4	-4	35.8	35.7	35.3	35.3	34.9
	-2	-2	36.5	36.2	35.6	35.6	35.0
	2	1	38.2	37.4	36.3	36.1	35.3
	6	5	40.3	39.2	38.1	37.1	35.9
	10	9	41.6	40.8	40.0	39.2	38.0
	13	12	43.4	42.9	42.2	41.7	40.9
	17	15	44.3	43.9	43.2	42.7	41.9
	19	18	45.2	44.6	44.1	43.3	42.4
	23	21	46.5	45.8	45.4	44.3	43.1
	26	24	49.1	48.4	47.6	46.1	45.0
	30	28	51.8	51.0	50.3	48.4	46.5
	35	32	54.0	53.3	52.5	50.3	48.0
	39	36	56.6	55.9	55.1	52.9	50.6
	44	40	59.3	58.5	57.4	54.0	50.6
	47	43	61.9	60.8	60.0	55.5	50.6
	51	47	63.8	61.9	60.0	55.5	50.6
54	50	65.6	62.6	60.0	55.5	50.6	
57	53	67.5	63.8	60.0	55.5	50.6	
60	56	69.4	64.5	60.0	55.5	50.6	
060	-12.6	-13	49.9	47.9	45.1	41.1	37.3
	-7.1	-8	51.2	49.2	46.3	43.4	40.9
	-4	-4	52.1	50.0	47.2	45.0	43.2
	-2	-2	52.5	50.4	47.6	45.7	44.4
	2	1	53.6	51.5	48.7	47.4	46.8
	6	5	55.7	53.4	50.5	49.2	48.4
	10	9	58.2	55.9	52.8	51.1	50.6
	13	12	62.1	59.6	56.4	54.0	53.3
	17	15	63.5	61.0	57.6	55.2	54.4
	19	18	64.1	61.6	58.1	55.9	55.2
	23	21	65.0	62.5	58.9	57.1	56.3
	26	24	67.1	64.5	60.7	59.4	57.9
	30	28	68.6	66.0	62.2	61.7	59.1
	35	32	70.1	67.8	63.7	62.2	60.7
	39	36	71.7	69.1	64.0	62.5	60.4
	44	40	72.4	69.1	64.0	62.5	60.4
	47	43	73.7	69.1	64.0	62.5	60.4
	51	47	73.7	69.1	64.0	62.5	60.4
54	50	73.7	69.1	64.0	62.5	60.4	
57	53	73.7	69.1	64.0	62.5	60.4	
60	56	73.7	69.1	64.0	62.5	60.4	
072	-12.6	-13	62.4	59.8	56.3	51.4	46.6
	-7.1	-8	64.0	61.4	57.9	54.3	51.1
	-4	-4	65.1	62.5	59.0	56.2	54.1
	-2	-2	65.6	63.0	59.5	57.2	55.6
	2	1	66.9	64.3	60.8	59.2	58.5
	6	5	69.6	66.7	63.1	61.5	60.5
	10	9	72.7	69.8	66.0	63.9	63.2
	13	12	77.7	74.6	70.5	67.5	66.6
	17	15	79.4	76.2	72.0	69.0	68.0
	19	18	80.2	77.0	72.6	69.9	69.0
	23	21	81.3	78.1	73.6	71.4	70.4
	26	24	83.8	80.6	75.8	74.2	72.3
	30	28	85.8	82.6	77.8	77.1	73.9
	35	32	87.7	84.8	79.7	77.8	75.8
	39	36	89.6	86.4	80.0	78.1	75.5
	44	40	90.6	86.4	80.0	78.1	75.5
	47	43	92.2	86.4	80.0	78.1	75.5
	51	47	92.2	86.4	80.0	78.1	75.5
54	50	92.2	86.4	80.0	78.1	75.5	
57	53	92.2	86.4	80.0	78.1	75.5	
60	56	92.2	86.4	80.0	78.1	75.5	

NOTE

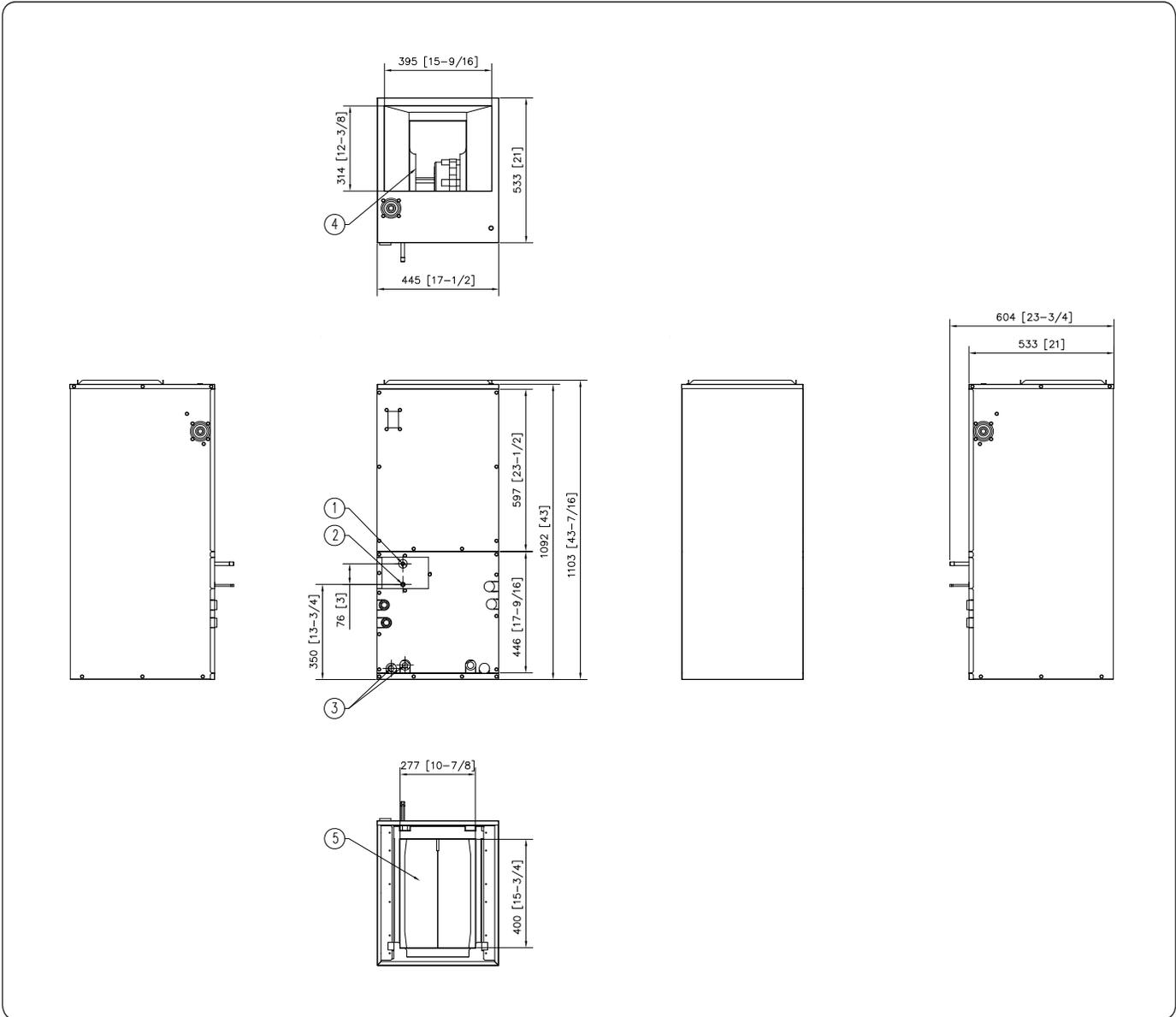
- The performance table shows the average value of each conditions.

Dimensional Drawing

Vertical Air Handler

VVCD012S6-5P, VVCD018S6-5P, VVCD024S6-5P

Unit: mm (inches)



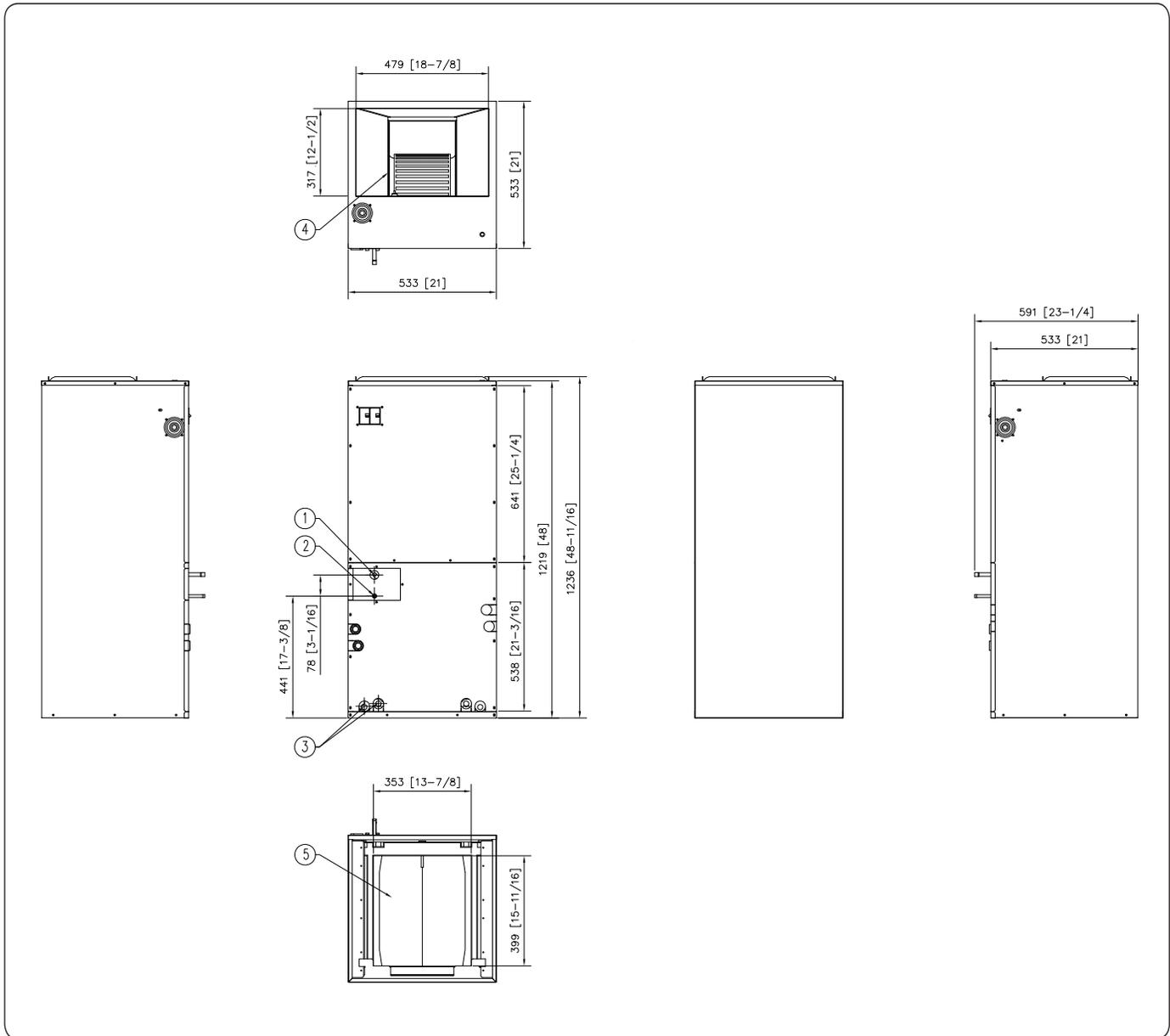
No.	Name	Description	
		VVCD012S6-5P, VVCD018S6-5P	VVCD024S6-5P
1	Gas pipe connection	Φ12.7 (1/2)	Φ15.88(5/8)
2	Liquid pipe connection	Φ6.35 (1/4)	Φ9.52(3/8)
3	Drain pipe connection	FPT 3/4	
4	Air outlet		
5	Air intake		

Dimensional Drawing

Vertical Air Handler

VVCD030S6-5P, VVCD036S6-5P

Unit: mm (inches)



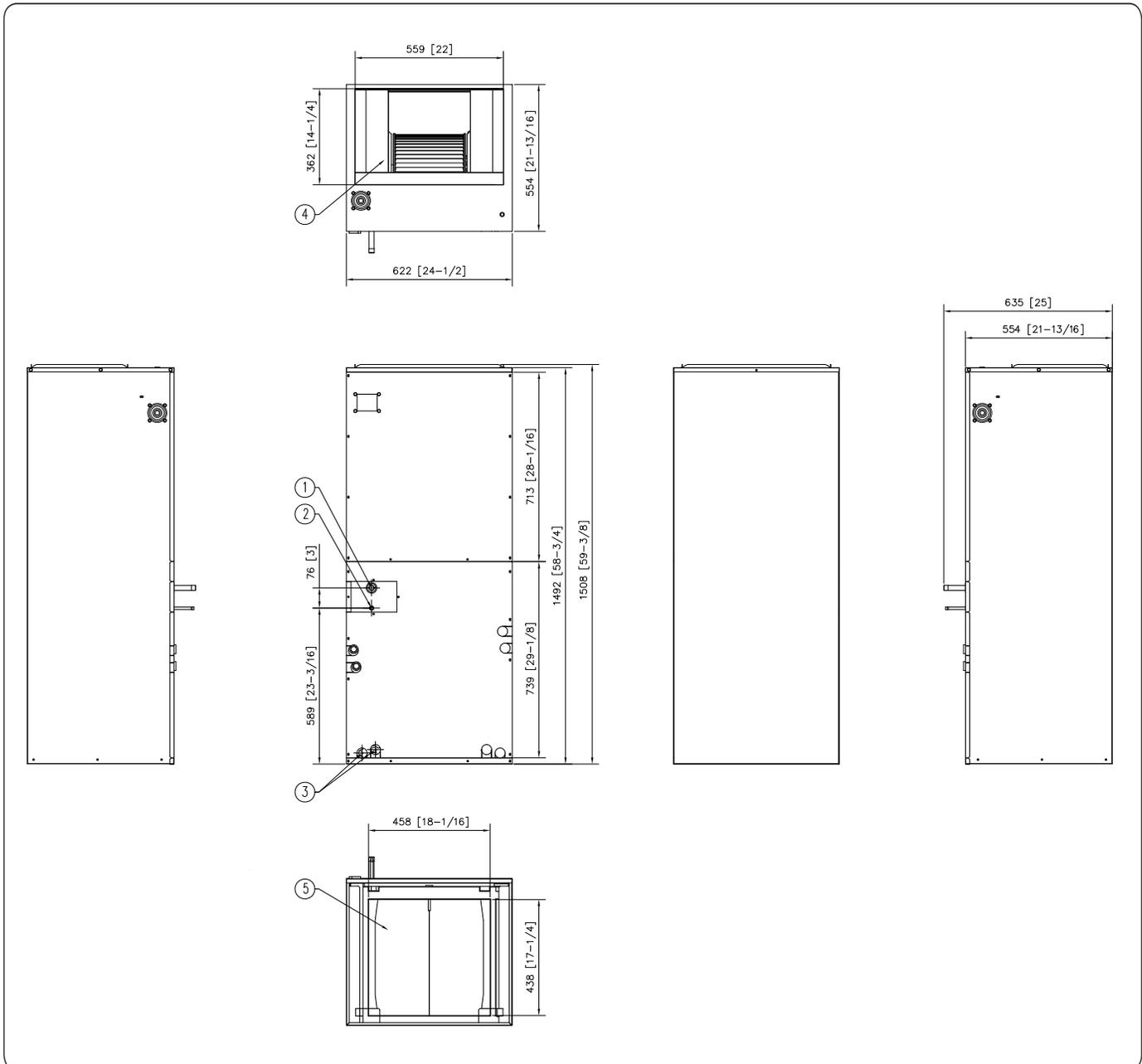
No.	Name	Description
1	Gas pipe connection	Φ15.88(5/8)
2	Liquid pipe connection	Φ9.52(3/8)
3	Drain pipe connection	FPT 3/4
4	Air outlet	
5	Air intake	

Dimensional Drawing

Vertical Air Handler

VVCD048S6-5P, VVCD054S6-5P, VVCD060S6-5P, VVCD072S6-5P

Unit: mm (inches)

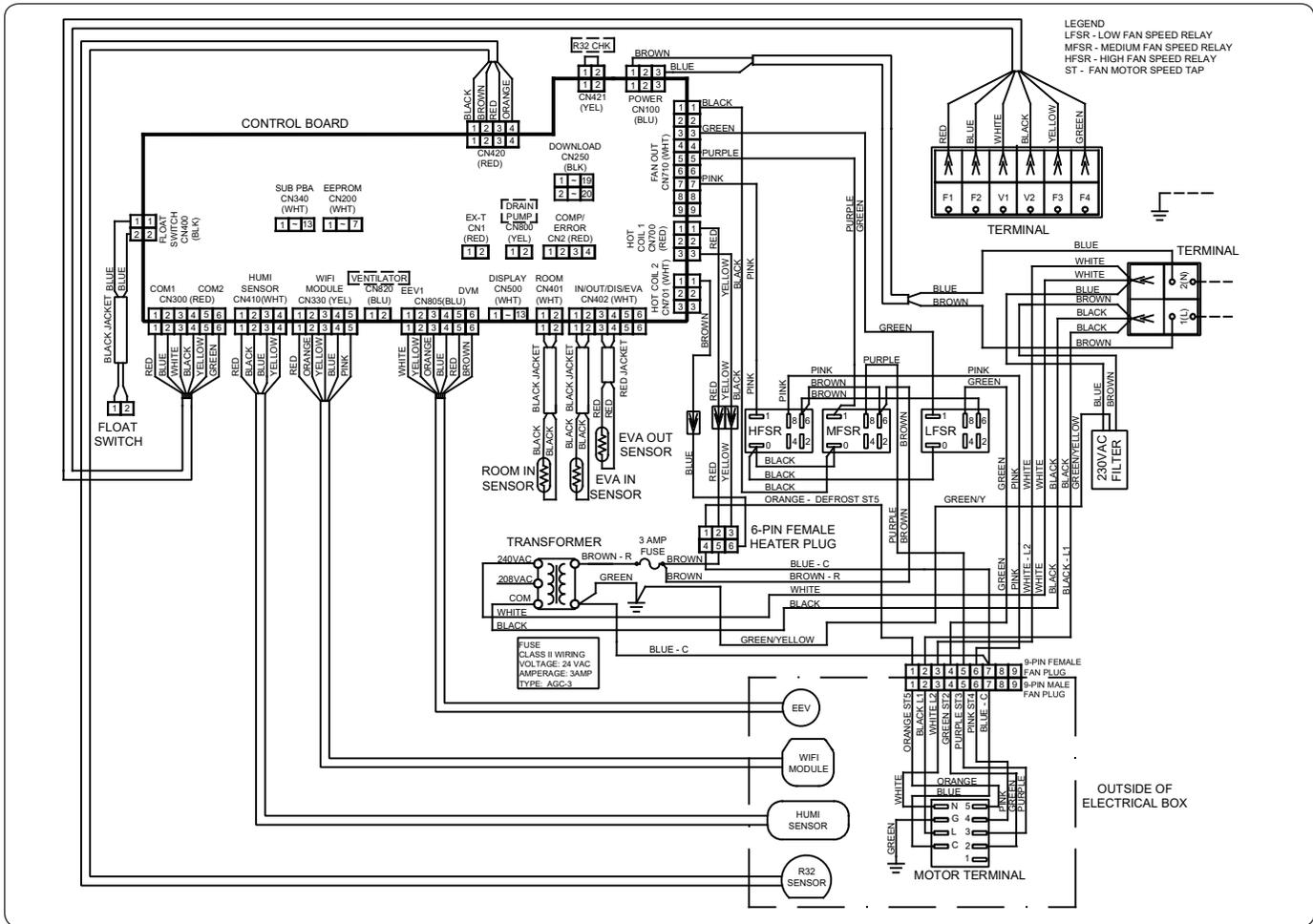


No.	Name	Description
1	Gas pipe connection	Φ19.05(3/4)
2	Liquid pipe connection	Φ9.52(3/8)
3	Drain pipe connection	FPT 3/4
4	Air outlet	
5	Air intake	

Electrical Wiring Diagram

Vertical Air Handler

VVCD012S6-5P, VVCD018S6-5P, VVCD024S6-5P, VVCD030S6-5P, VVCD036S6-5P
 VVCD048S6-5P, VVCD054S6-5P, VVCD060S6-5P, VVCD072S6-5P



SUB PBA	SUB PBA for wired remote control communication	COMP CHECK	Contact output port for compressor operation check	R32 CHK	Contact output port for Refrigerant gas leak check
EEV	Electronic Expansion Valve	EVA IN SENSOR	Thermistor - IDU heat exchanger In	EEPROM	EEPROM SUB PBA
DISPLAY	Panel LED display	EVA OUT SENSOR	Thermistor - IDU heat exchanger Out	ERROR CHECK	Contact output port for error check
EX-T	Input port for external contact control	ROOM IN SENSOR	Thermistor - Indoor Room		

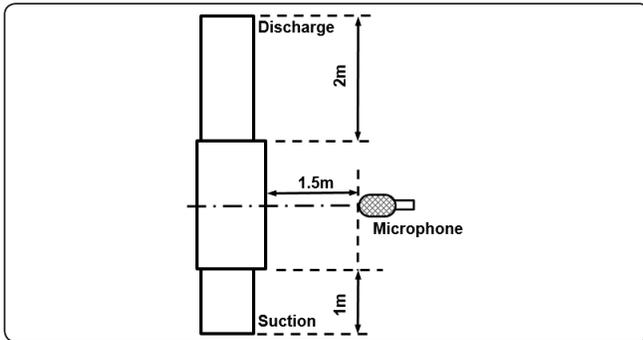
NOTE

- 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, : The wire quantity

Sound Data

Vertical Air Handler

Sound Pressure level

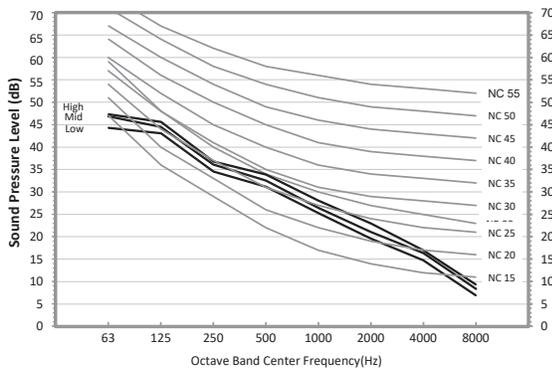


Unit: dB(A)

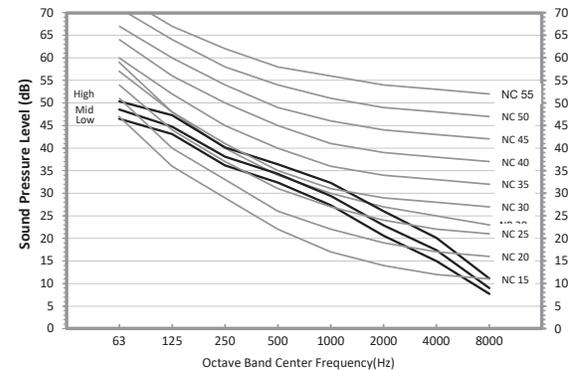
Model	Cooling		
	High	Mid	Low
VVCD012S6-5P	38	36	34
VVCD018S6-5P	39	37	35
VVCD024S6-5P	41	39	37
VVCD030S6-5P	42	40	38

- NC Curve

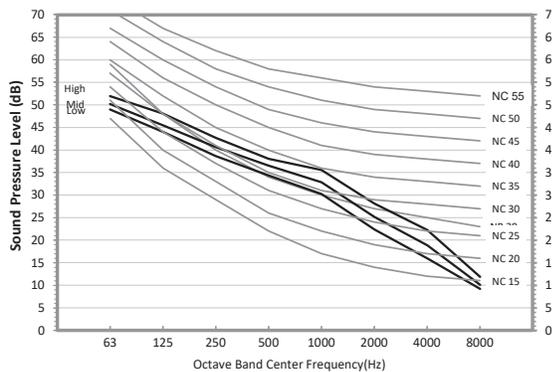
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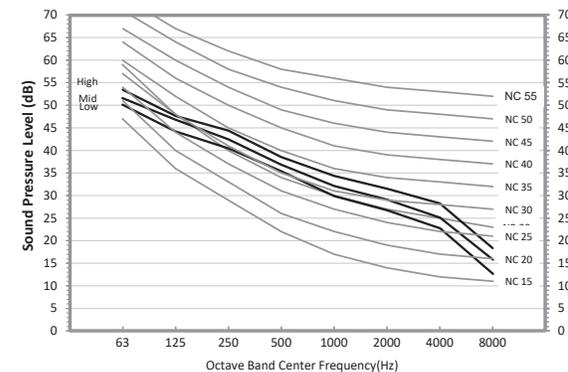
2) VVCD018S6-5P



3) VVCD024S6-5P



4) VVCD030S6-5P



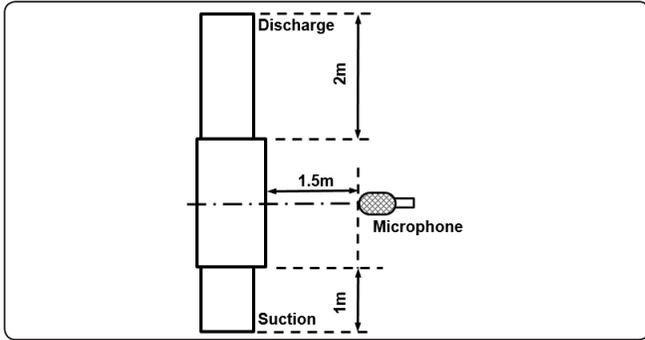
NOTE

- Specifications may be subject to change without prior notice.
- Sound pressure Level
 - 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

Vertical Air Handler

Sound Pressure level

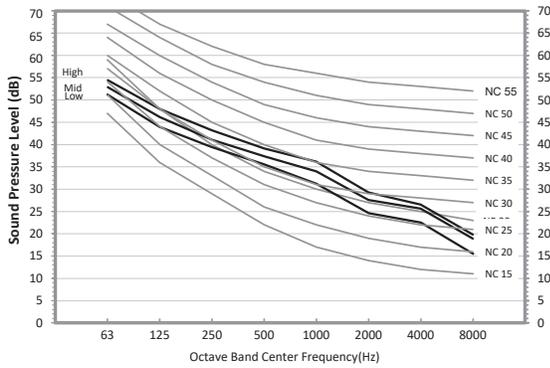


Unit: dB(A)

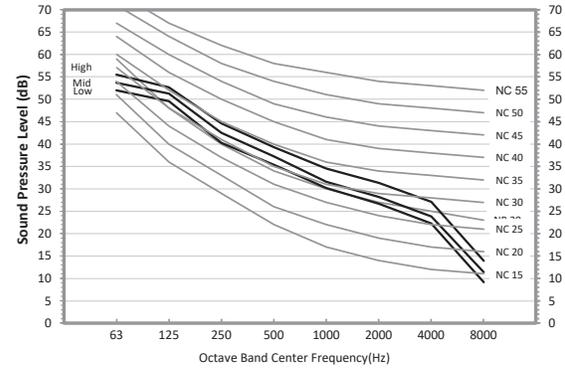
Model	Cooling		
	High	Mid	Low
VVCD036S6-5P	42	40	38
VVCD048S6-5P	43	41	39
VVCD054S6-5P	43	41	39
VVCD060S6-5P	46	44	42

- NC Curve

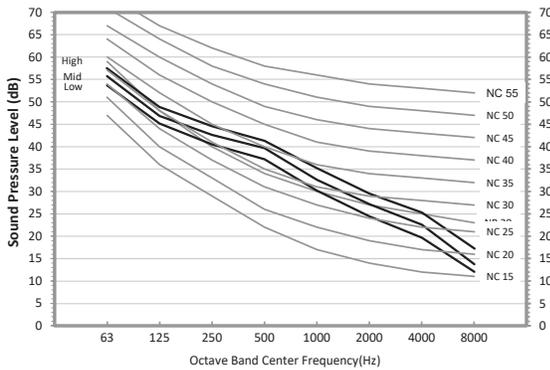
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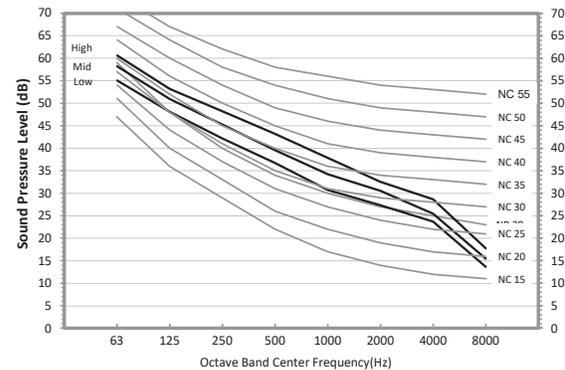
2) VVCD048S6-5P



3) VVCD054S6-5P



4) VVCD060S6-5P



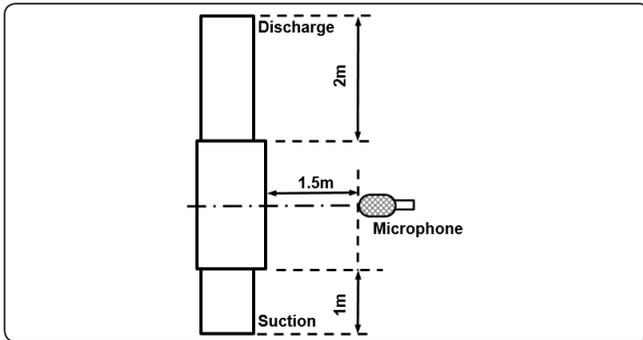
NOTE

- Specifications may be subject to change without prior notice.
- Sound pressure Level
 - 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

Vertical Air Handler

Sound Pressure level



Unit: dB(A)

Model	Cooling		
	High	Mid	Low
VVCD072S6-5P	50	48	46

- NC Curve
1) VVCD072S6-5P

TBD

NOTE

- Specifications may be subject to change without prior notice.
- Sound pressure Level
 - 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

Vertical Air Handler

Sound Power level

NOTE

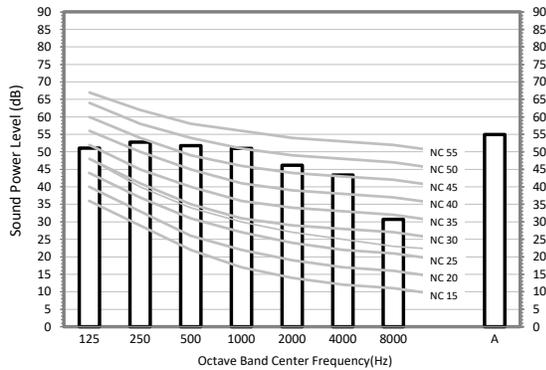
Unit: dB(A)

- 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.

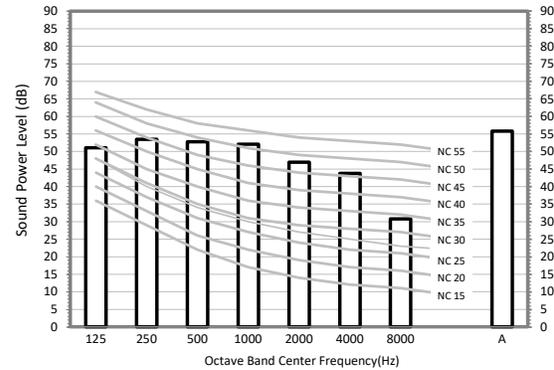
Model	Cooling
VVCD012S6-5P	55
VVCD018S6-5P	56
VVCD024S6-5P	58
VVCD030S6-5P	59

NC Curve

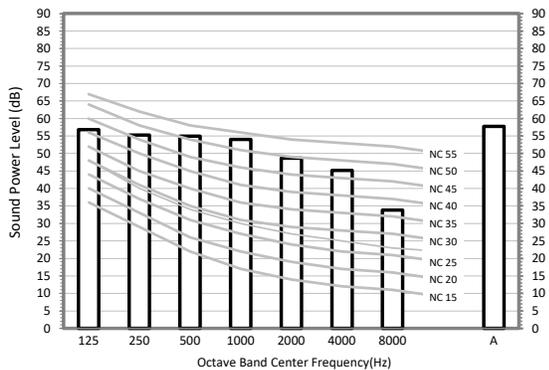
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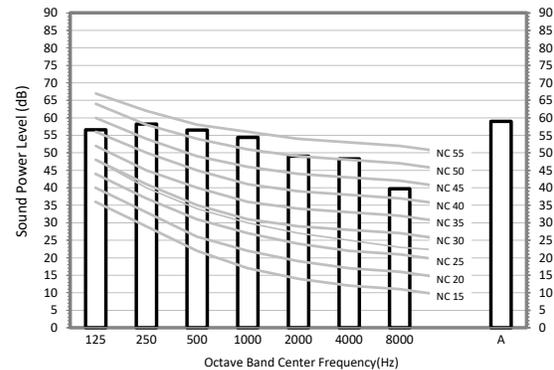
2) VVCD018S6-5P



3) VVCD024S6-5P



4) VVCD030S6-5P



Sound Data

Vertical Air Handler

Sound Power level

NOTE

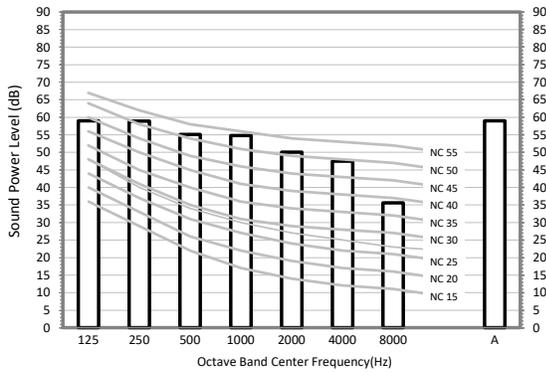
Unit: dB(A)

- 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.

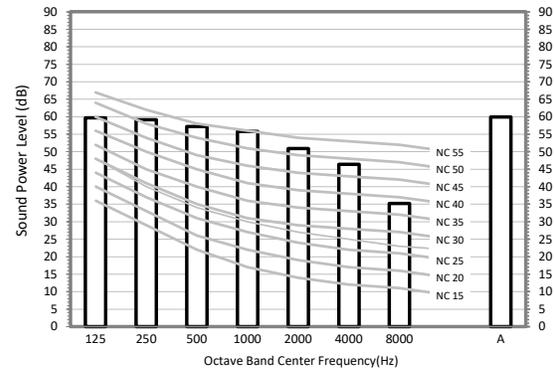
Model	Cooling
VVCD036S6-5P	59
VVCD048S6-5P	60
VVCD054S6-5P	60
VVCD060S6-5P	63

NC Curve

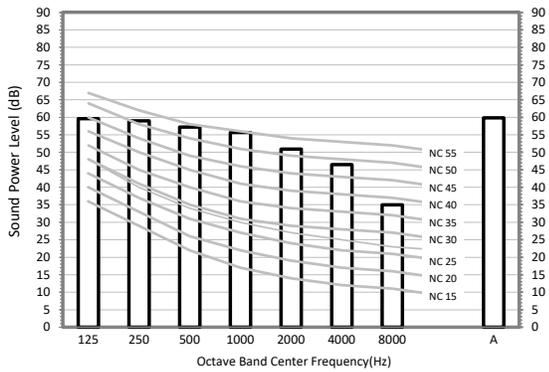
1) VVCD036S6-5P



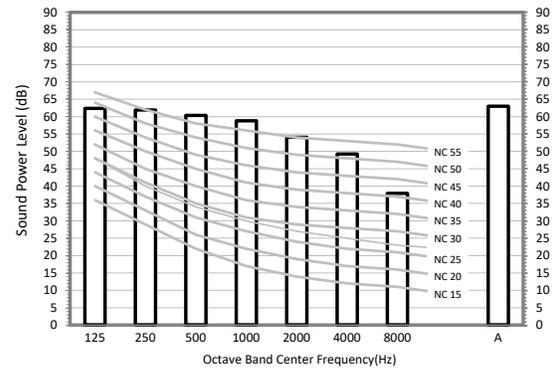
2) VVCD048S6-5P



3) VVCD054S6-5P



4) VVCD060S6-5P



Sound Data

Vertical Air Handler

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.

- NC Curve
 - 1) VVCD072S6-5P

Unit: dB(A)

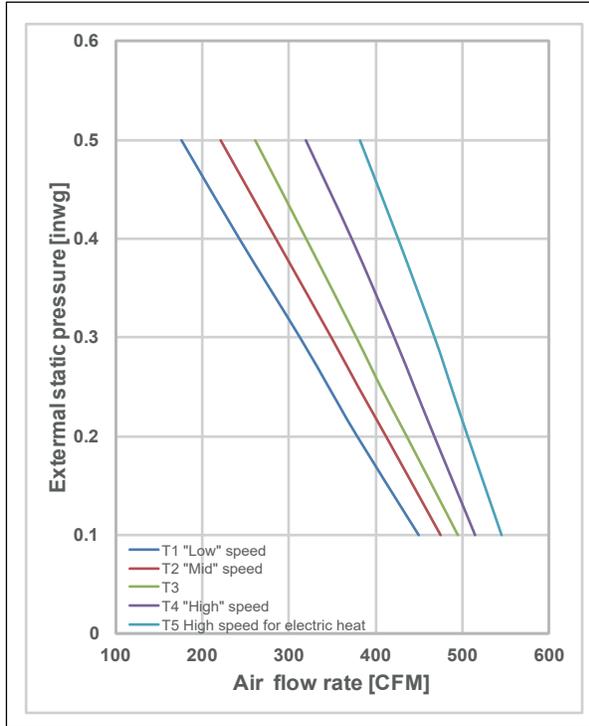
Model	Cooling
VVCD072S6-5P	67

TBD

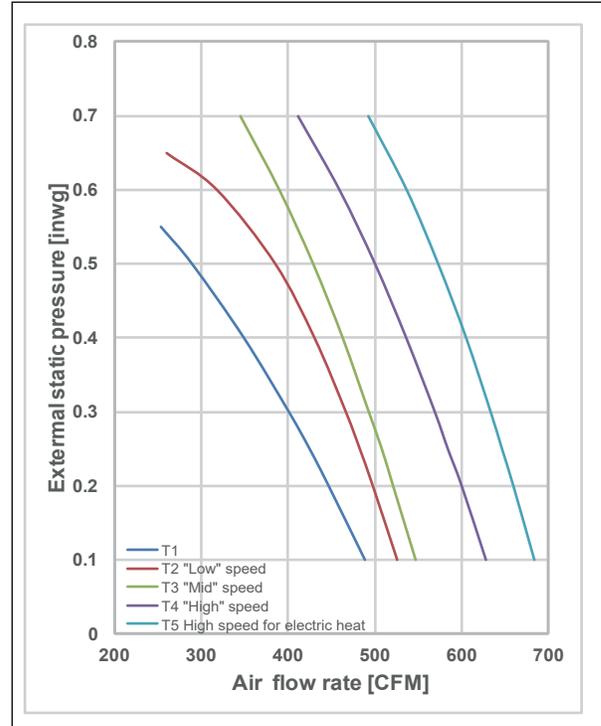
Recommended operation range

Vertical Air Handler

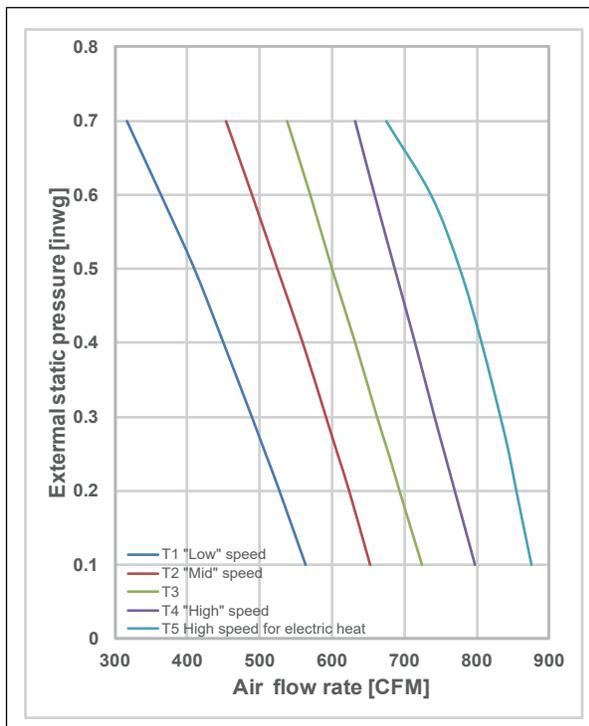
1) VVCD012S6-5P



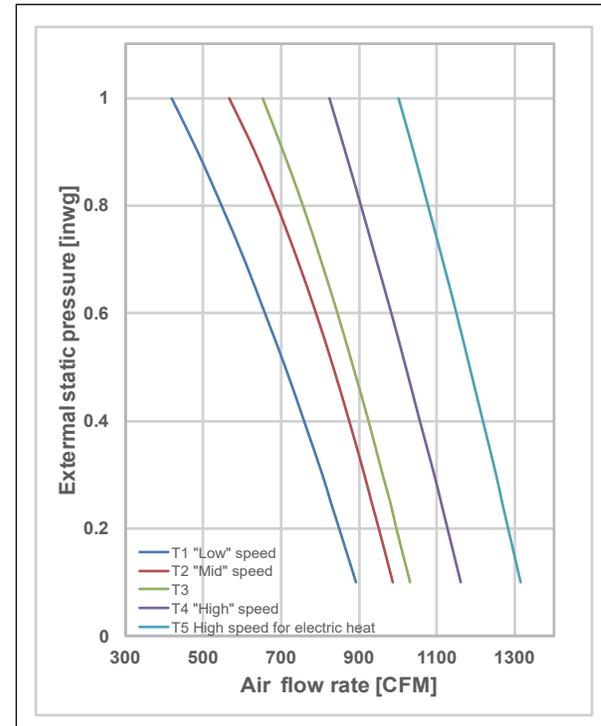
2) VVCD018S6-5P



3) VVCD024S6-5P



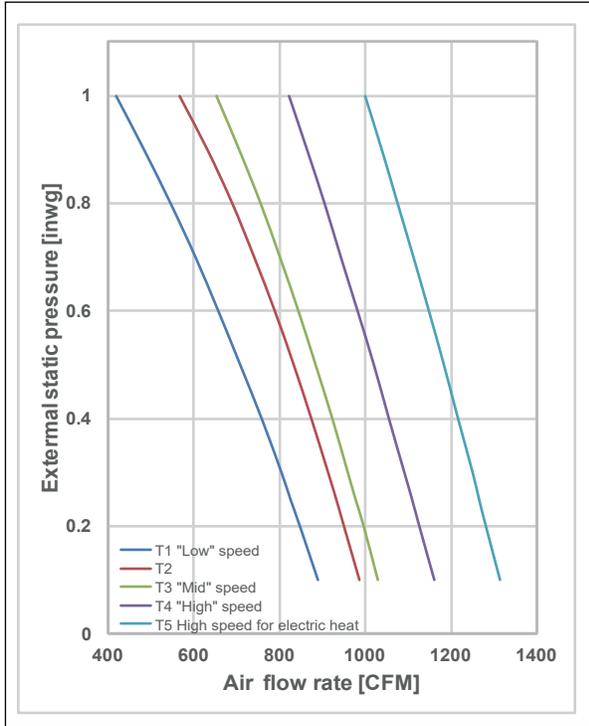
4) VVCD030S6-5P



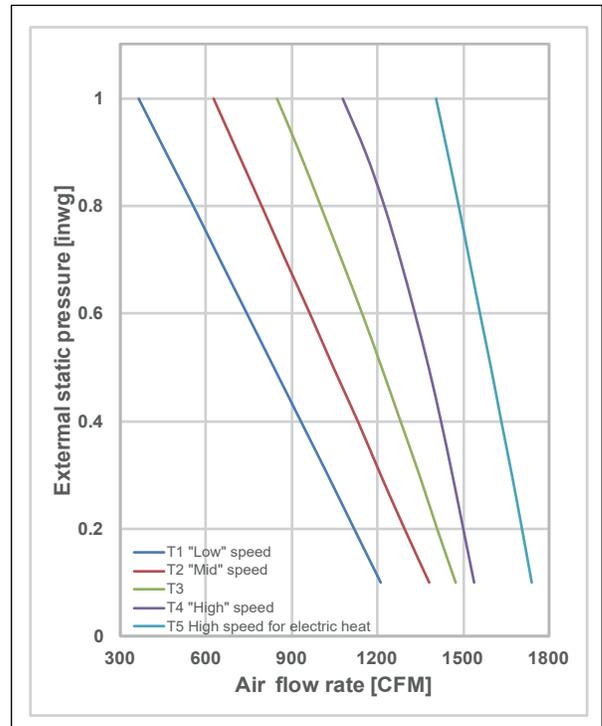
Recommended operation range

Vertical Air Handler

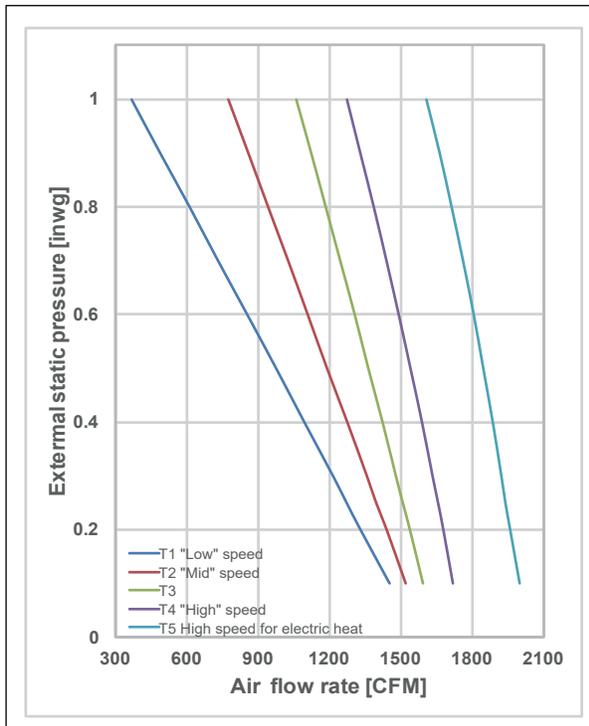
5) VVCD036S6-5P



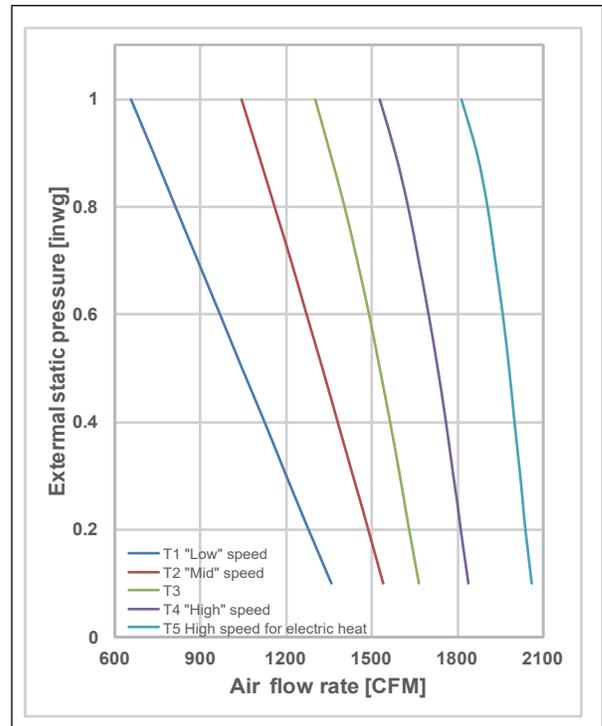
6) VVCD048S6-5P



7) VVCD054S6-5P



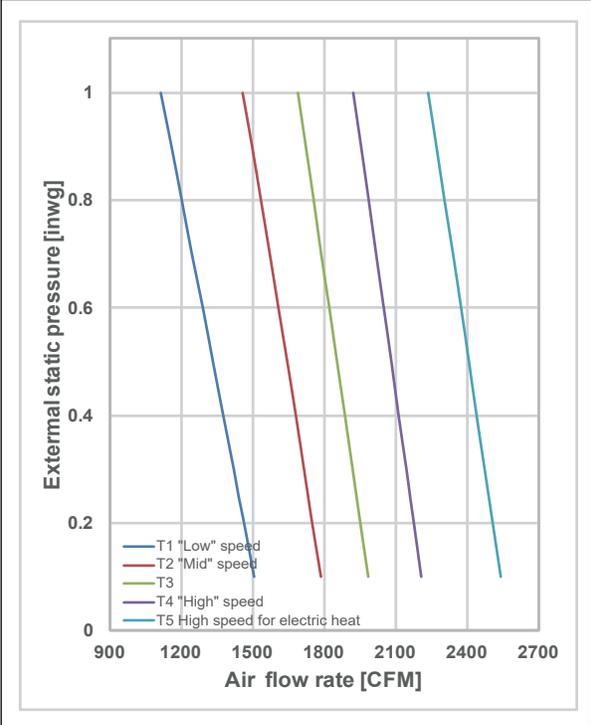
8) VVCD060S6-5P



Recommended operation range

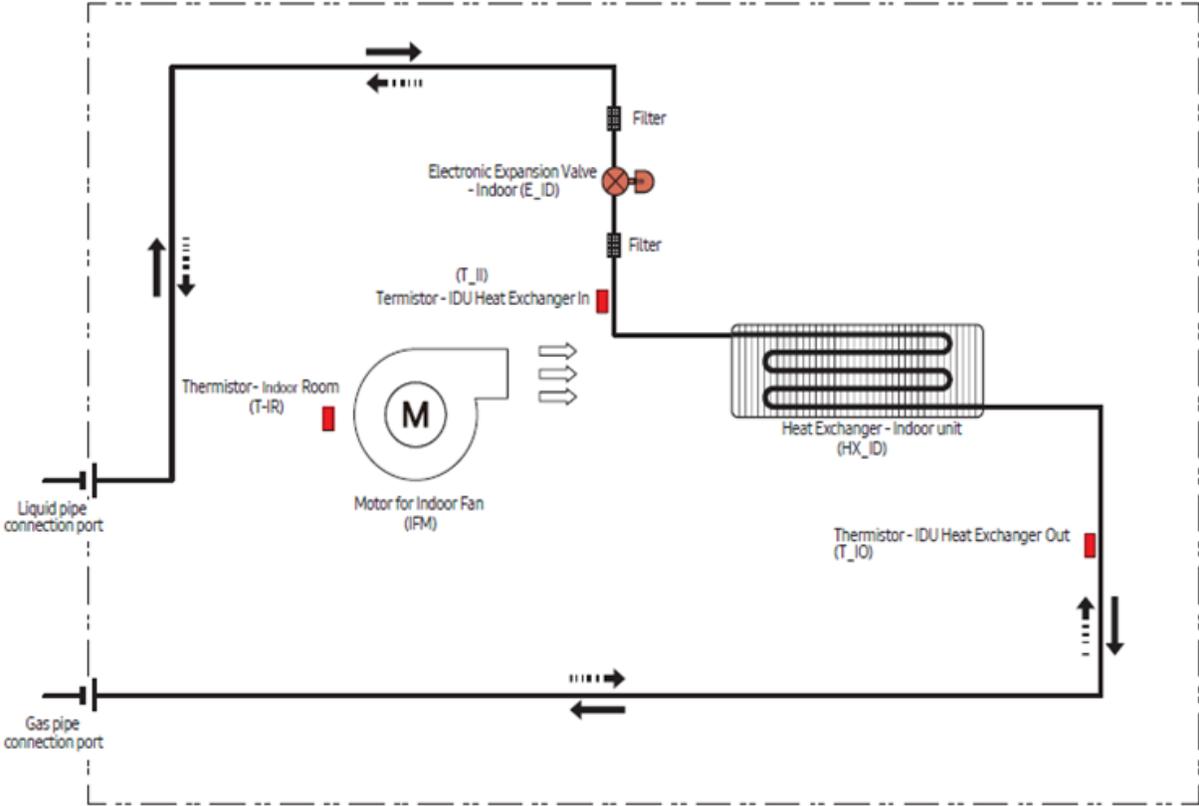
Vertical Air Handler

9) VVCD072S6-5P



Piping Diagram

Vertical Air Handler



Refrigerant flow	
Cooling	Heating

REVISIONS

Sections	Description of Change
Document	Added VVCD072 specifications, dimensions and ratings.



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