

AIR HANDLING UNIT

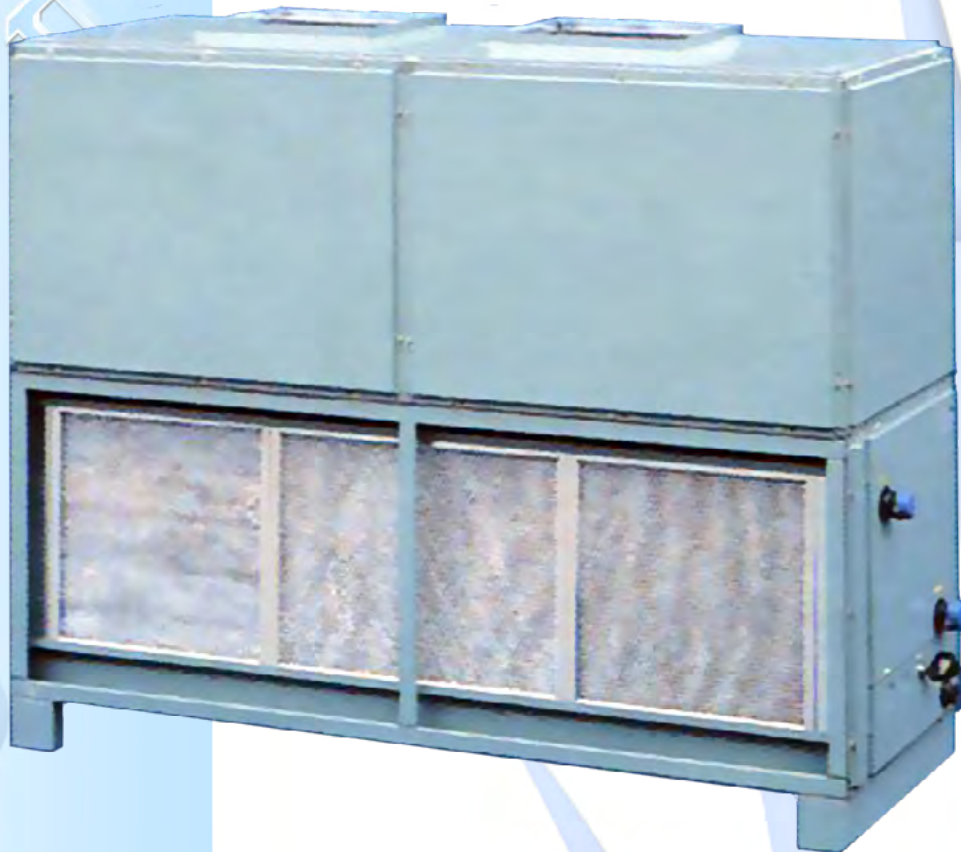
MODEL: AHU-CW-V & H

CAPACITY: 6.7 to 62.3 Nominal Tons

80,000 to 783,000 BtuH

23.4 to 229.4 KW

2,500 to 25,000 CFM



Features/Benefits

- Horizontal and vertical draw-thru arrangements for heating and cooling applications
- Small footprint assures rigging ease and reduced space requirements
- High-efficiency fan minimizes surging and turbulence and reduces operating costs
- Exclusive Nu-Fin coil surface provides peak heat transfer. We delivers the air handler components for your stringent specification requirements. The CW-AHU series air handlers are compact and fully assembled; they combine versatility with economical, dependable performance.

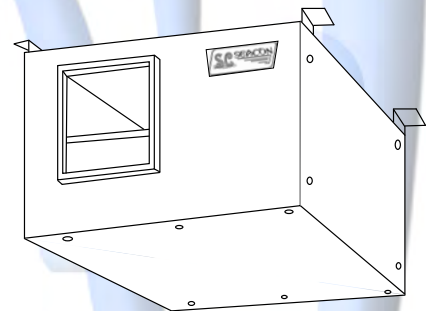
Dependable performance

Prepainted galvanized steel panels ensure structural integrity under all operating conditions. Doublewalled hinged access doors also enhance structural stability and provide fast, easy access. Sloped, double-wall stainless steel drain pan controls condensate and is self-draining, complies with ASHRAE Standard.

PHYSICAL DATA & ELECTRICAL DATA

MODEL:AHU-CW		007-009	010-012	015	020	025	030	040	050	060	075	
Blower	Size in (mm)	12" x 12" (304.8 x 304.8)			15" x 15" (381 x 381)		18" x 18" (457.2 x 457.2)			20" x 20" 508 x 508	22" x 22" 559 x 559	
	Type	Belt - Drive										
	Qty.	1			2							
	Nominal (CFM)	3,000	4,000	5,000	6,500	8,000	10,000	12,500	15,000	20,000	25,000	
	Nominal (CMH)	5,100	6,800	8,500	11,050	13,600	17,000	21,250	25,500	34,000	42,500	
	CFM Range	25,00- 8,500	3,000- 5,000	4,000- 6,000	5,000- 8,000	6,000- 10,000	8,000- 12,000	10,000- 15,000	12,000- 18,000	18,000- 22,000	22,000- 28,000	
CMH Range	4,250- 5,950	5,100- 8,500	6,800- 10,200	8,500- 13,600	10,200- 17,000	13,600- 20,400	17,000- 25,500	20,400- 30,600	30,600- 37,400	37,400- 47,600		
Motor	HP	1	2		3	5	7.5	10	12.5	15	20	
	RPM	1,410	1,420			1,430	1,440			1,450		
	VOLTAGE	220V - 380V - 415V / 3PH / 50Hz 208V - 440V - 480V / 3PH / 60Hz										
FLA.	220 V	3.5	6.2		9.0	14.2	22.8	36.6	44.0	44.0	58.0	
	380 V	1.5	2.6		3.8	5.9	9.5	15.3	18.4	18.4	24.2	
	415 V	1.3	2.4		3.4	5.4	8.7	14.0	16.8	16.8	22.2	
	440 V	1.3	2.2		3.2	5.1	8.2	13.2	15.9	15.9	20.9	
	460 V	1.2	2.1		3.1	4.9	7.9	12.6	15.2	15.2	20.0	
	480 V	1.2	2.1		3.0	4.7	7.5	12.1	14.6	14.6	19.2	
COIL	Type	Plate Fin Tube										
	Face Area ft. ² ~ (m ²)	5.94 (0.55)	10.5 (0.98)		18.05 (1.68)		22.22 (2.06)	6.56 (2.47)	33.94 (3.15)	41.25 (3.83)	47.74 (4.44)	
	Rows	4	3	4	3	4						
	Tube Size in. ~ (mm)	1/2 (12.70)										
Connection	WATER IN NPT. in. ~ mm	1-1/4 31.75	1-1/2 38.1	2 50.8	2-1/2 63.5		3 76.2					
	WATER OUT NPT. in. ~ mm	1-1/4 31.75	1-1/2 38.1	2 50.8	2-1/2 63.5		3 76.2					
	Drain FPT. in. ~ (mm)	3/4 (19.05)	1 (25.4)				1-1/4 (31.75)					
Air Filter	Size: W x L Thk. ~ No. in. (mm)	22x21-1/2x1-2 (558.8x546.1x1-2)	20x20x1-2 (508x508x1-2) 20x25x1-1 (508x635x1-1)		14x20x2-8 (355.6x508x2-8)		16x20x2- (406x508x2-2) 16x25x2 (406x635x2-2) 20x25x2 (508x635x2-2) 20x20x2-2 (508x508x2-2)		16x16x2-7 (406x406x2-7) 16x20x2-1 (406x635x2-1) 16x25x2-3 (406x635x2-3) 20x25x2-6 (508x635x2-6)		16x16x2-1 (406x406x2-1) 16x25x2-4 (406x635x2-4) 20x25x2-8 (508x635x2-8) 20x20x2-2 (508x508x2-2)	
Weight (approx..)	lbs. (kgs)	300 (136.40)	400 (181.80)	450 (024.50)	580 (263.60)	650 (295.50)	850 (386.40)	940 (427.30)	1,030 (468.0)	1,100 (500)	1,200 (545.50)	

MODEL CODE DESCRIPTION:

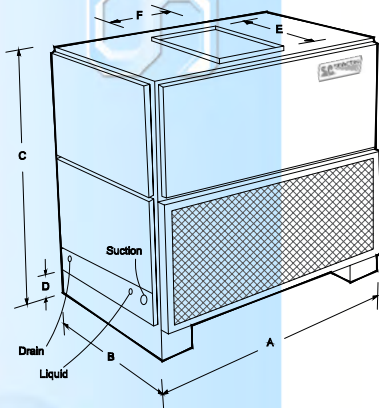


**Ceiling Mounted Type
On Request Only**

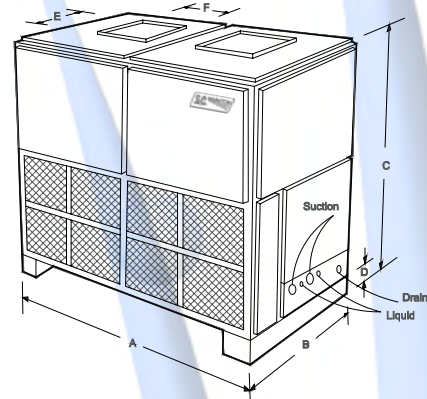
DIMENSIONAL DATA

AHU-CW	007-009	010-012	015	020	025	030	040	050	060	075
Dimension in. (mm)	A	45 (1,143)	71 (1,803.40)	91-1/8 (2,314.60)		97 (2,463.80)		121 (3,073.40)	130 (3,302)	
	B	25 (635)	27 (685.80)	35 (889)		43 (1,092.20)			48 (1,219.20)	
	C	52-3/4 (1,339.80)	56-1/2 (1,435.10)	72-1/2 (1,841.50)		90-1/2 (2,298.70)	109 (2,768.6)		126 (3,200.4)	
	D	4 (101.60)			6 (152.40)			4 (101.60)		
	E	13-3/4 (349.20)	13-3/4 (349.25)	16-1/4 (412.75)		19-3/8 (492.12)	19 (482.6)	25 (635)	27-1/2 (698.5)	
	F	15-7/8 (403.22)		18-7/8 (479.42)		22 (558.80)		25 (635)	27-1/2 (698.5)	

DIMENSIONAL DRAWING



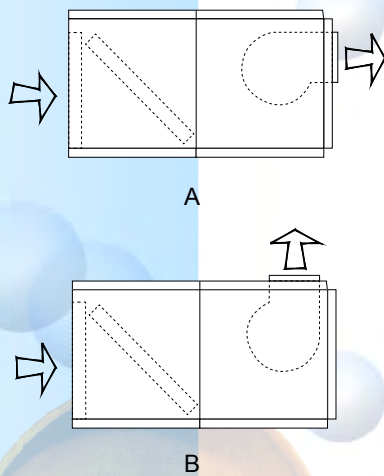
MODEL : AHU-CW-V-007-009



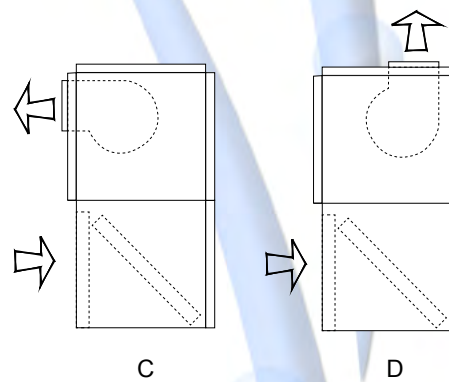
MODEL : AHU-CW-V-010-075

ALTERNATE BLOWER ARRANGEMENT

HORIZONTAL



VERTICAL



PERFORMANCE DATA FOR CW COIL

MODEL AHU-CW-V-H	SUPPLY AIR (CFM)(CMH)	EWT °C	WATER FLOW (GPM)	PRESSURE DROP (FT. OF WG)	ENTERING AIR TEMPERATURE					
					24.4 °CDB, 18.3 °CWB		26.7 °CDB, 19.4 °CWB		28.9 °CDB, 20.6 °CWB	
					TC	SHC	TC	SHC	TC	SHC
007-009	3,000 (5,100)	4.4	15	10.65	88.34	61.49	97.09	69.69	104.96	75.02
			18	15.01	95.33	64.63	104.77	71.82	113.27	78.44
			21	19.12	98.18	66.06	107.90	73.24	116.65	79.86
		7.2	15	10.56	75.57	56.08	83.97	62.98	92.36	69.88
			18	14.86	81.55	58.64	90.61	65.83	99.67	72.74
			21	18.94	83.99	59.78	93.32	66.97	102.65	73.88
010-012	4,000 (6,800)	4.4	15	10.34	91.64	63.55	101.82	74.43	112.01	78.80
			20	5.14	91.64	63.55	101.82	74.43	112.01	78.80
			26	8.42	99.40	72.67	110.45	82.02	121.49	90.60
		7.2	20	5.04	68.58	60.51	80.56	69.85	91.64	79.19
			23	6.78	74.39	62.79	87.38	72.51	99.40	81.86
			26	8.25	75.13	62.79	88.25	72.89	100.39	82.24
015	5,000 (8,500)	4.4	24	9.54	148.84	103.85	163.58	115.43	176.84	126.06
			30	11.81	159.44	108.60	175.23	120.66	189.43	131.76
			30	14.79	161.63	109.55	177.63	121.61	192.03	132.71
		7.2	24	9.45	127.33	94.34	141.48	106.40	155.62	117.51
			27	11.70	136.39	98.65	151.55	110.20	166.70	122.26
			30	14.65	138.26	99.10	153.63	111.15	168.99	123.21
020	6,500 (11,050)	4.4	24	9.27	95.29	81.51	111.91	94.52	136.84	106.58
			27	11.47	102.07	83.89	119.90	97.37	136.39	109.90
			30	14.36	103.47	84.36	121.54	98.32	138.26	110.85
		7.2	34	10.89	193.14	132.88	212.26	147.55	229.47	160.99
			38	13.18	196.42	134.12	215.87	149.40	233.37	162.84
			42	16.04	197.65	134.74	217.74	150.02	234.83	163.46
025	8,000 (13,600)	4.4	34	10.78	165.22	120.53	183.58	135.20	203.63	149.87
			38	13.05	168.03	121.76	186.70	137.05	205.37	151.10
			42	15.89	169.08	122.38	187.86	137.05	206.65	151.72
		7.2	34	10.57	123.64	103.23	145.24	119.75	165.22	135.66
			38	12.79	125.75	104.47	147.71	120.99	168.03	136.27
			42	15.58	126.53	104.77	148.63	121.61	169.08	136.89
030	10,000 (17,000)	4.4	38	2.57	223.79	160.84	245.95	178.84	265.89	199.89
			48	3.94	247.46	170.72	271.96	190.15	294.01	208.05
			58	5.35	258.52	176.04	284.12	195.47	307.15	213.38
		7.2	38	2.54	191.44	146.39	212.71	165.06	233.98	182.96
			48	3.90	211.68	155.51	235.21	174.18	258.73	192.85
			58	5.30	221.15	159.31	245.72	178.74	270.30	198.17
040	12,000 (20,400)	4.4	48	2.49	148.27	127.38	168.29	147.57	191.44	167.00
			48	3.83	156.42	133.46	186.09	154.41	211.69	174.60
			58	5.19	165.50	135.74	194.41	158.21	221.15	178.40
		7.2	48	2.75	283.48	201.72	311.55	225.01	336.81	246.39
			60	3.94	309.30	213.13	339.92	237.36	367.48	258.75
			72	5.65	323.26	219.78	355.26	244.02	384.07	266.35
050	15,000 (25,500)	4.4	60	2.72	242.50	184.62	249.45	207.90	259.39	230.23
			60	3.90	264.59	194.12	293.99	217.40	323.39	240.69
			72	5.60	276.53	198.87	307.26	223.11	337.98	247.34
		7.2	48	2.67	181.48	159.90	213.18	185.09	242.50	209.33
			60	3.83	198.01	166.56	232.60	192.69	264.59	217.88
			72	5.49	206.95	169.41	243.09	197.45	276.53	222.63
060	20,000 (34,000)	4.4	67	4.16	369.71	255.75	406.31	284.83	439.26	310.50
			84	6.29	389.44	263.74	428.00	293.96	462.70	320.76
			100	8.63	410.16	274.00	450.77	304.22	487.31	331.02
		7.2	67	4.12	316.27	231.80	351.41	260.88	386.55	288.83
			84	6.23	333.15	239.79	370.16	268.87	407.18	296.81
			100	8.55	350.87	246.63	389.85	276.85	428.84	305.93
075	25,000 (42,500)	4.4	67	4.04	436.68	278.73	478.02	331.23	516.27	360.31
			84	6.11	449.32	284.43	492.86	336.93	533.15	367.86
			100	8.38	462.58	290.13	508.44	343.78	550.87	374.00
		7.2	80	3.71	461.48	320.10	507.18	355.10	548.30	388.68
			100	5.41	472.56	324.38	519.35	360.80	561.46	394.38
			120	7.66	510.00	341.48	560.50	379.34	605.94	412.91
075	25,000 (42,500)	4.4	100	3.68	394.77	290.16	438.64	326.59	482.50	361.59
			100	5.35	404.25	294.44	449.17	330.86	494.08	365.87
			120	7.59	436.28	308.69	484.75	346.55	533.23	381.55
		7.2	80	3.60	295.44	248.82	347.04	289.52	394.77	325.95
			100	5.25	302.53	251.67	355.37	292.37	404.25	330.23
			120	7.44	326.50	261.65	383.52	303.78	436.28	343.06

EWT = Entering Water Temp. (° C)
 SHC = Sensible Heat Capacity (MBH x 1000) = Btuh
 TC = Total Capacity (MBH x 1000) = Btuh
 TR = Temp. Rise 10 ° C

UNIT SIZE AHU-CW-HV	HIGH			LOW		
	CFM.	TC	SHC	CFM.	TC	SHC
007, 009	3,500	1.07	1.10	2,500	0.92	0.89
010, 012	5,000	1.09	1.13	3,000	0.91	0.84
015	6,000	1.08	1.13	44,000	0.91	0.87
020	8,000	1.09	1.13	5,000	0.90	0.85
025	10,000	1.08	1.14	6,000	0.90	0.84
030	12,000	1.08	1.12	8,000	0.90	0.86
040	15,000	1.09	1.14	10,000	0.89	0.87
050	18,000	1.08	1.13	12,000	0.90	0.85
060	22,000	1.09	1.14	18,000	0.91	0.86
075	28,000	1.08	1.13	22,000	0.90	0.85

SPECIFICATIONS AND DESIGN ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.