

AIR HANDLING UNIT

MODEL: AHU-DX-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, cooling, ventilation, and VAV 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 DX-AHU series air handlers are compact and fully assembled; they combine versatility with economical, dependable performance.

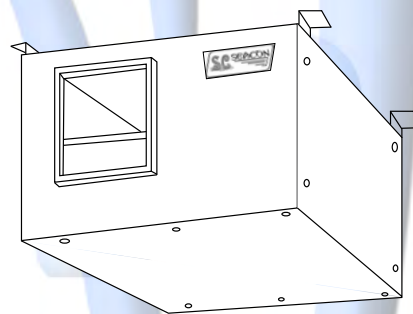
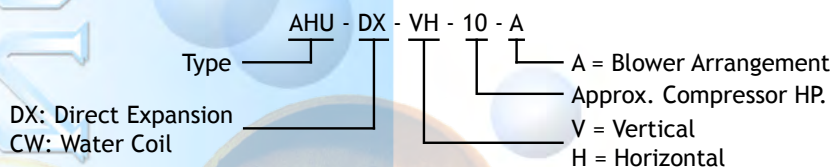
Dependable performance

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-DX		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" x20" 508 x 508	22" x22" 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	Suction OD in. - (mm)	1-1/8 (28.57)	1-3/8 (34.92)	1-5/8 (41.27)	2-1/8 (53.97)			2-3/8 (60.32)	2-5/8 (66.67)			
	Liquid OD in - (mm)	5/8 (15.87)	7/8 (22.22)									
	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)	16x16x2-2 (406x406x2-2) 16x20x2-1 (406x635x2-2) 16x25x2-3 (406x635x2-3) 20x25x2-6 (508x635x2-6)	16x16x2-1 (406x406x2-1) 16x25x2-4 (406x635x2-4) 20x25x2-8 (508x635x2-8) 20x20x2-2 (508x508x2-2)	20x25x2-10 (508x635x2-10) 25x25x2-5 (635x635x2-5)				
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:

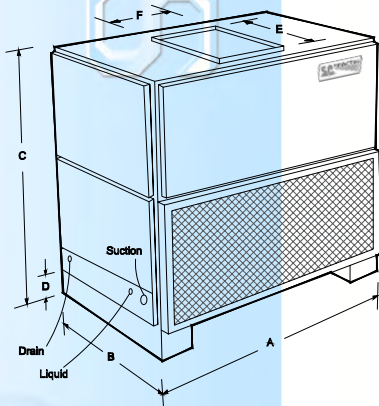


**Ceiling Mounted Type
On Request Only**

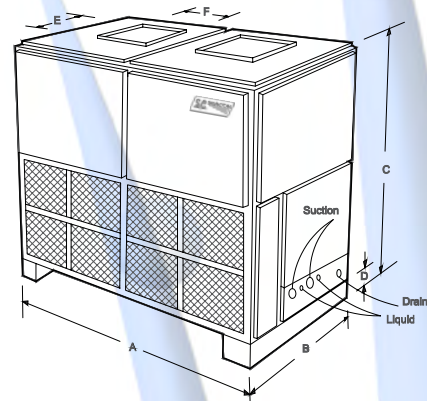
DIMENSIONAL DATA

AHU-DX	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



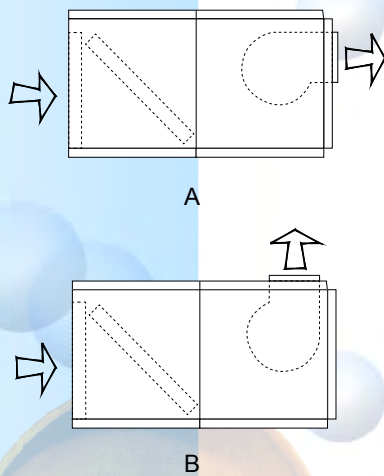
MODEL : AHU-DX-V-007-009



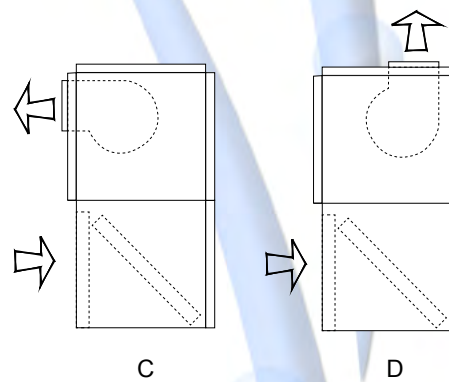
MODEL : AHU-DX-V-010-075

ALTERNATE BLOWER ARRANGEMENT

HORIZONTAL



VERTICAL



PERFORMANCE DATA FOR DX. COIL

MODEL AHU-DX-V-H	SUPPLY AIR (CFM) (CMH)	Ewb ° C	COIL REFRIGERANT TEMP. (° C)							
			2		4		7		10	
			TC	SHC	TC	SHC	TC	SHC	TC	SHC
007, 009	2,500 (4,250)	22	-	-	122	58	105	51	86	45
		19	114	72	97	65	80	58	62	51
		17	91	78	74	71	-	-	-	-
3,000 (5,100)	3,500 (5,950)	22	153	69	134	64	115	57	95	50
		19	126	80	106	73	88	66	68	59
		17	100	88	81	80	-	-	-	-
010, 012	3,000 (5,100)	22	164	77	144	70	123	62	102	55
		19	135	88	114	80	95	73	73	65
		17	107	98	-	-	-	-	-	-
5,000 (8,500)	4,000 (6,800)	22	-	-	148	69	127	62	105	54
		19	139	86	118	77	98	69	75	61
		17	111	93	89	84	-	-	-	-
015	4,000 (6,800)	22	198	91	174	82	149	73	123	65
		19	162	103	138	93	114	84	88	75
		17	130	113	105	103	-	-	-	-
6,000 (10,200)	5,000 (8,500)	22	221	102	194	93	166	83	127	74
		19	181	117	154	107	128	97	98	87
		17	144	130	-	-	-	-	-	-
020	5,000 (8,500)	22	198	122	211	99	181	87	149	76
		19	158	131	168	109	139	98	107	86
		17	124	131	112	118	-	-	-	-
8,000 (13,600)	6,000 (10,200)	22	270	124	236	112	203	105	167	88
		19	221	139	188	125	156	113	120	100
		17	176	153	143	138	-	-	-	-
025	6,000 (10,200)	22	296	137	259	124	222	111	183	99
		19	243	156	206	142	171	128	132	114
		17	193	172	-	-	-	-	-	-
030	8,000 (13,600)	22	-	-	253	118	217	104	179	91
		19	237	145	201	130	167	117	129	102
		17	189	157	153	141	-	-	-	-
040	10,000 (17,000)	22	332	152	290	136	249	122	205	108
		19	272	171	230	154	191	140	147	124
		17	217	188	175	170	-	-	-	-
050	12,000 (20,400)	22	-	-	323	154	277	138	228	123
		19	302	194	256	176	213	160	164	143
		17	241	215	-	-	-	-	-	-
060	15,000 (25,500)	22	-	-	333	155	285	137	235	119
		19	312	189	264	169	219	152	169	133
		17	248	204	201	183	-	-	-	-
075	18,000 (30,600)	22	-	-	389	184	333	164	275	143
		19	364	228	309	205	256	185	198	164
		17	290	249	235	225	-	-	-	-
085	21,000 (35,700)	22	-	-	437	208	375	187	309	165
		19	499	231	437	208	375	187	309	165
		17	409	262	347	237	298	219	222	192
095	24,000 (40,800)	22	-	-	431	200	369	177	304	155
		19	404	246	342	221	284	198	219	174
		17	322	266	260	238	-	-	-	-
105	27,000 (45,900)	22	456	284	487	229	417	205	344	180
		19	363	311	394	281	326	256	247	205
		17	-	-	294	281	-	-	-	-
115	30,000 (50,000)	22	-	-	532	253	456	227	376	200
		19	498	317	422	287	350	227	270	231
		17	397	350	321	317	-	-	-	-
125	33,000 (54,900)	22	528	326	528	246	452	218	373	191
		19	494	333	419	272	348	244	268	215
		17	394	328	318	296	-	-	-	-
135	36,000 (59,400)	22	-	-	585	286	561	267	413	216
		19	548	341	464	309	389	278	297	245
		17	436	374	353	337	-	-	-	-
145	39,000 (64,350)	22	745	345	652	313	559	280	460	246
		19	610	391	517	354	429	322	331	288
		17	486	433	414	402	-	-	-	-
155	42,000 (69,300)	22	752	346	660	309	562	272	458	234
		19	639	387	548	348	452	309	353	271
		17	461	392	369	351	-	-	-	-
165	45,000 (74,250)	22	850	393	746	353	636	312	518	272
		19	723	447	619	403	511	361	399	319
		17	521	458	418	414	-	-	-	-
175	48,000 (80,400)	22	934	434	819	391	698	348	569	305
		19	794	499	680	453	562	408	438	361
		17	573	518	-	-	-	-	-	-
185	51,000 (85,050)	22	1027	474	901	426	788	377	626	327
		19	873	538	748	486	618	434	462	383
		17	630	552	504	500	-	-	-	-
195	54,000 (90,900)	22	1084	504	951	452	810	402	661	350
		19	922	576	790	522	652	468	509	414
		17	665	594	-	-	-	-	-	-
205	57,000 (94,650)	22	1135	528	996	475	848	423	692	371
		19	965	608	827	551	683	496	533	442
		17	696	633	-	-	-	-	-	-
215	60,000 (100,800)	22	1225	567	1075	510	913	450	747	393
		19	1042	644	893	585	737	523	576	461
		17	752	665	602	601	-	-	-	-
225	63,000 (105,150)	22	1302	606	1142	546	973	487	794	425
		19	1107	697	949	632	783	568	611	505
		17	798	724	-	-	-	-	-	-
235	66,000 (109,800)	22	1376	644	1208	581	1029	520	839	454
		19	1170	744	1003	677	828	611	646	544
		17	844	780	-	-	-	-	-	-

Capacity base on Entering air at 26.7 °C Dry Bulb
 EWT = Entering Air Temp.(°C) Wet Bulb
 SHC = Sensible Heat Capacity (MBH x 1000) = Btuh
 TC = Total Capacity (MBH x 1000) = Btuh