

#### 4) 냉·난방 휴먼공기조화기 사양

##### HAH -SPEC : KV-2001

ITEM	MODEL	HAH-50	HAH-75	HAH-100	HAH-150	HAH-200	HAH-250	HAH-300	HAH-400	HAH-500
HUMAN AIR HANDLING UNIT										
호칭능력		5	7.5	10	15	20	25	30	40	50
증발기(EVAPORATOR)		MULTI PASS CROSS FIN TUBE TYPE								
냉방능력 (kcal/h)		14000	21000	28000	42000	56000	70000	84000	112000	140000
규격 (ROW x m <sup>2</sup> )		3 x 0.4	3 x 0.6	3 x 0.8	3 x 1.2	3 x 1.6	3 x 1.7	3 x 2.1	3 x 2.7	4 x 2.7
응축기(CONDENSER)		MULTI PASS CROSS FIN TUBE TYPE								
난방능력 (kcal/h)		11000 ~ 16800	16500 ~ 25200	22000 ~ 33600	33000 ~ 50400	44000 ~ 67200	55000 ~ 84000	66000 ~ 100800	88000 ~ 134400	110000 ~ 168000
규격 (ROW x m <sup>2</sup> )		5 x 0.5	5 x 0.8	5 x 1.1	5 x 1.5	5 x 2.1	5 x 2.3	5 x 2.7	5 x 3.6	6 x 3.8
예비코일 (SUB HEAT')		ELECTRIC, HOT WATER, STEAM COIL(선택사양)								
난방능력 (kcal/h)		3300	4950	6600	9900	13200	16500	19800	26400	33000
규격 (m <sup>2</sup> )		0.081	0.126	0.171	0.230	0.290	0.338	0.416	0.510	0.629
급기송풍기(S.A FAN)		AIR FOIL	AIR FOIL DOUBLE SUCTION							
풍량 (CMM)		38	57	75	113	150	188	225	300	375
풍량범위 (CMM)		27 ~ 38	40 ~ 57	53 ~ 75	80 ~ 113	105 ~ 150	132 ~ 188	158 ~ 225	210 ~ 300	263 ~ 375
규격 (#NO)		2 SS	2.5 DS	2.5 DS	3 DS	3 DS	3.5 DS	3.5 DS	4 DS	4.5 DS
기내정압 (mmAq)		25	25	25	25	25	26	26	26	33
전정압 (mmAq)		43	43	47	53	55	56	58	60	69
모터동력(Kw)		0.75	1.5	1.5	2.2	3.7	3.7	3.7	5.5	7.5
배기송풍기(E.A FAN)		SIROCCO DOUBLE SUCTION								
풍량 (CMM)		70	105	140	210	280	350	420	560	700
풍량범위 (CMM)		63 ~ 70	95 ~ 105	126 ~ 140	189 ~ 210	252 ~ 280	315 ~ 350	378 ~ 420	504 ~ 560	630 ~ 700
규격 (DS#)		2 DS	2.5 DS	3 DS	3.5 DS	3.5 DS	4 DS	4.5 DS	5 DS	5.5 DS
기내정압 (mmAq)		19	19	20	20	20	20	20	21	24
전정압 (mmAq)		29	29	34	39	39	39	42	44	48
모터동력(Kw)		1.5	1.5	2.2	3.7	5.5	7.5	7.5	11.2	15
공기청정장치(FILTER)		KPS-4000N(AFI 80%)								
드레인 (A)		20	20	25	25	32	32	32	40	40
가습급수라인 (A)		15	15	15	15	15	15	15	15	15
가습장치(HUMIDIFIER)		ELECTRIC PAN TYPE, ELECTRODE TYPE, STEAM INJECTION TYPE 선택사양								
운전중량 (ton/ASS'Y)		0.5	0.8	1.0	1.5	2.0	2.5	3.0	3.8	5.0
COMPRESSOR UNIT										
COMPRESSOR TYPE		HERMETIC RECIPRO & SCROLL			HERMETIC RECIPRO			SEMI-HERMETIC RECIPRO		
출력 (Kw)		3.7	5.5	7.5	5.5	7.5	9.4	22.5	30	37
수량 (SET)		1	1	1	2	2	2	1	1	1
COMP' 기동방식		직입기동			순차직입기동			Y-Δ 기동		
용량제어 (%)		0-100			0-50-100			0-50-100		
냉매가스관 (mm x EA)		19.1 x 1	22.2 x 1	25.4 x 1	22.2 x 2	25.4 x 2	31.8 x 2	38.1 x 1	44.5 x 1	50.8 x 1
냉매액관 (mm x EA)		12.7 x 1	15.9 x 1	15.9 x 1	15.9 x 2	15.9 x 2	19.1 x 2	25.4 x 1	25.4 x 1	31.8 x 1
냉매제어		EXPANTION VALVE								
온도제어		전자식 온도조절기, MICOM(DDC 적용가능)								
안전장치		압축기보호 써모스텝, 과전류 계전기, 고압압력스위치								
냉매종류		R-22								
냉매충진량 (Kg)		5	7	7	7 X 2	7 X 2	14 X 2	28	36	46
냉동기유종류		SUNISO - 4GS								
충진량 (ℓ)		2.6	3	3	3 X 2	3 X 3	4.5 X 2	9	14	14
출력동력 (Kw)		5.95	8.5	11.2	17.1	24.2	30.0	33.7	46.7	59.5
동력사양	ψ Hz V	3φ 60 Hz 220, 380, 460 V								

HAH-600	HAH-700	HAH-800	HAH-900	HAH-1000	HAH-1200	HAH-1500	HAH-1800	HAH-2000	
HUMAN AIR HANDLING UNIT									
60	70	80	90	100	120	150	180	200	
MULTI PASS CROSS FIN TUBE TYPE									
168000	196000	224000	252000	280000	336000	420000	504000	560000	
4 x 3.3	4 x 3.8	4 x 4.5	4 x 4.9	4 x 5.6	4 x 6.7	4 x 7.9	4 x 9.6	4 x 11.0	
MULTI PASS CROSS FIN TUBE TYPE									
132000 ~ 201600	154000 ~ 235200	176000 ~ 268800	198000 ~ 302400	220000 ~ 336000	264000 ~ 403200	330000 ~ 504000	396000 ~ 604800	440000 ~ 672000	
6 x 4.5	6 x 5.2	6 x 6.0	7 x 6.0	7 x 6.6	7 x 8.1	6 x 10.1	6 x 12.4	6 x 13.3	
ELECTRIC, HOT WATER, STEAM COIL(선택사양)									
39600	46200	52800	59400	66000	79200	99900	118800	132000	
0.810	0.912	1.007	1.060	1.416	1.536	2.016	2.624	3.132	
AIR FOIL DOUBLE SUCTION									
450	525	600	675	750	900	1125	1350	1500	
315 ~ 450	368 ~ 525	420 ~ 600	473 ~ 675	525 ~ 750	630 ~ 900	788 ~ 1125	945 ~ 1350	1050 ~ 1500	
4.5 DS	5 DS	5.5 DS	5.5 DS	6 DS	7 DS	7 DS	8 DS	9 DS	
35	35	35	35	35	35	35	35	35	
74	76	81	82	86	88	96	100	104	
11.2	11.2	15	18.5	18.5	22.5	30	37	45	
SIROCCO DOUBLE SUCTION									
840	980	1120	1260	1400	1680	2100	2520	2800	
756 ~ 840	882 ~ 980	1008 ~ 1120	1134 ~ 1260	1260 ~ 1400	1512 ~ 1680	1890 ~ 2100	2268 ~ 2520	2520 ~ 2800	
6 DS	6 DS	7 DS	7 DS	7 DS	8 DS	9 DS	10 DS	11 DS	
33	33	33	41	41	41	36	36	37	
60	61	62	70	72	73	71	71	72	
18.5	22.5	22.5	30	37	37	45	45	55	
KPS-4000N(AFI 80%)									
40	40	40	40	40	50	50	65	65	
15	15	15	15	15	15	20	20	25	
ELECTRIC PAN TYPE, ELECTRODE TYPE, STEAM INJECTION TYPE 선택사양									
6.0	6.7	7.5	8.4	8.9	10.0	12.0	14.0	16.0	
COMPRESSOR UNIT									
SEMI-HERMETIC RECIPRO									
45	30 + 22.5	30	22.5	37	45	37	45	37	
1	2	2	3	2	2	3	3	4	
Y-Δ 기동									
0-50-100			0-33-66-100		0-50-100		0-33-66-100		0-50-100
54.0 x 1	44.5 x 2	44.5 x 2	38.1 x 3	50.8 x 2	54.0 x 2	50.8 x 3	54.0 x 3	50.8 x 4	
31.8 x 1	25.4 x 2	25.4 x 2	25.4 x 3	31.8 x 2	31.8 x 2	31.8 x 3	31.8 x 3	31.8 x 4	
EXPANTION VALVE									
전자식 온도조절기, MICOM(DDC 적용가능)									
압축기보호 써모스탯, 과전류 계전기, 고압압력스위치									
R-22									
51	39 X 2	39 X 2	28 X 3	46 X 2	51 X 2	46 X 3	51 X 3	46 X 4	
SUNISO - 4GS									
14	14 X 2	14 X 2	9 X 3	14 X 2	14 X 2	14 X 3	14 X 3	14 X 4	
71.0	86.2	94.0	116.5	126.0	149.0	187.5	217.0	248.0	
3φ 60 Hz 220, 380, 460 V									