

항온항습기

Precision Air Conditioner



항온항습기 | Precision Air Conditioner

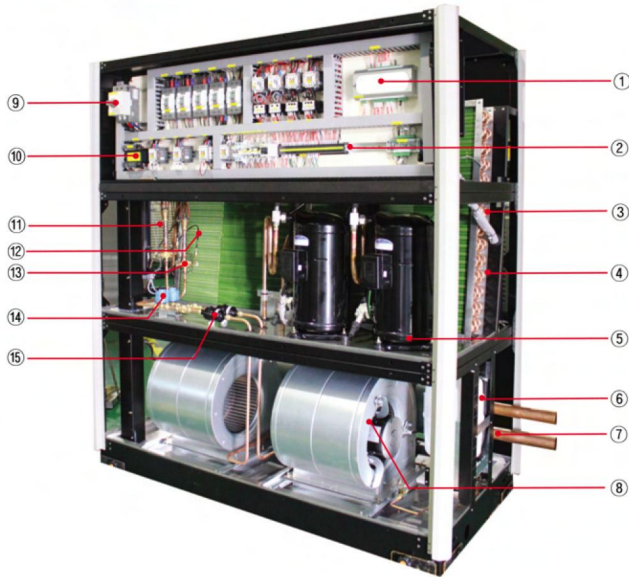
상향식 (Up Flow Type)



하향식 (Down Flow Type)



구조명칭 (Name and Structure)

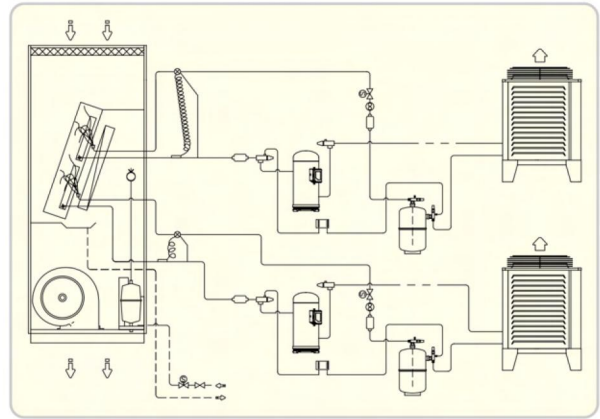


NO	부 품 명 칭 (Name and Parts)
1	Micom, Touch-Controller
2	Control Panel
3	Evaporator (DX-Coil)
4	Reheating Heater (Electric)
5	Compressor
6	Humidifier (at Electrode type)
7	Shell & Tube Condenser (수냉식인 경우)
8	Blower (at Sirocco fan & motor)
9	Power switch (at Electric main power)
10	Tranceformer (at Control power)
11	Pressure Sensor (at High, Low, Differential)
12	Frost Sensor(at Freezing-prevention system for evaporator)
13	Expansion Valve
14	Solenoid Valve
15	Filter Dryer

에이알 항온항습기의 특징 [Special Feature]

- 품질 및 안전성이 보증된 유럽연합안전인증(CE)규격 적용
- 인터넷에서 모니터링가능한 원격확인시스템 가능
- 항온항습기 정상운행중 내부점검가능 (특허 제0628849호, 특허 제0756018호)
- 디지털압력 인터넷 웹에서 원격상태감시 가능
- Micom Touch Pad Control 제어방식
- 증발기 코일 적상방지 장치(특허 제0653235호)
- 항온항습기의 비산방지 장치(특허 제0788739호)
- 내식성이 우수한 증발기 및 드레인판적용(STS304)
- 빙결방지시스템 채용
- 정숙한 저소음 스크롤압축기
- 전자전극봉식 가습기(콘데어)
- Acquired CE certification from TUV
- Applying remote centralized management system (Monitoring through internet)
- Flexibility to maintain the condensing unit at operating condition (patent no. 0628849, 0756018)
- Applying digital pressure to monitor remote centralized management system
- Micom touch pad control type
- Frost - prevention device for evaporator (patent no. 0653235)
- Applying scattering prevention device (patent no. 0788739)
- Corrosion-resistant condensate water drain plate(STS304)
- Freezing-prevention system
- Low-noise scroll compressor
- Electronic-electrode type humidifier (Condair)

공냉식 | Air Cooled Type

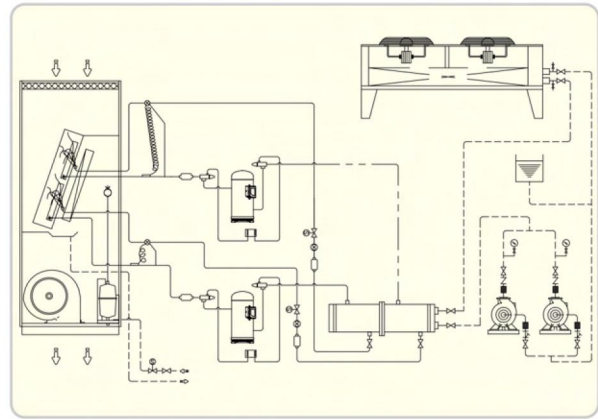
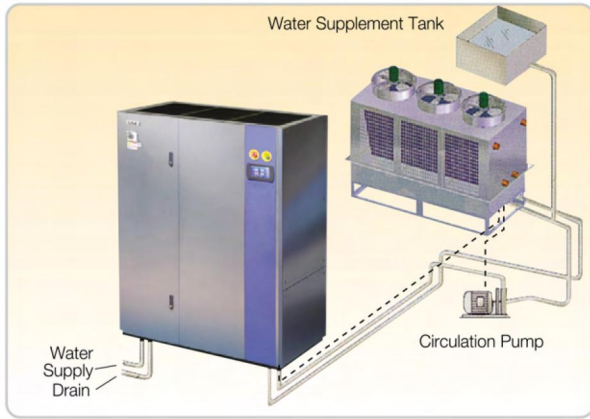


표준 사양 (Technical Data)

Section	Model	Single Type					Dual Type					
		PA003-A1ST	PA005-A1ST	PA008-A1ST	PA010-A1ST	PA015-A1ST	PA006-A2ST	PA010-A2ST	PA015-A2ST	PA020-A2ST	PA025-A2ST	PA030-A2ST
Certification		CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE
Cooling Cap.	kcal/h	9,072	15,120	22,680	30,240	45,360	18,144	30,240	45,360	60,480	75,600	90,720
	kW	10.55	17.58	26.37	35.16	52.74	21.1	35.16	52.74	70.33	87.91	105.49
재열기 Reheater	kcal/h	4,300 (2,580)	6,020 (2,580)	10,320 (5,160)	12,900 (5,160)	17,200 (8,600)	8,600 (5,160)	12,900 (5,160)	17,200 (8,600)	21,500 (8,600)	25,800 (10,320)	30,960 (10,320)
	Type	STS-Aero Finned Tube Type										
	kW	5(3)	7(3)	12(6)	15(6)	90(10)	10(6)	15(6)	20(10)	25(10)	30(12)	36(12)
가습기 Humidifier	Lit/h	4	4	8	8	13	8	8	13	13	15	15
	Type	전자전극봉식 (Electrode type)										
	kW	3	3	6.1	6.1	9.9	6.1	6.1	9.9	9.9	11.4	11.4
송풍기 Ventilator	Type	Sirocco Fan Type										
	Model	AS-110D	AS-111D	AS-133D	AS-1512D	AS-1512D	AS-122D	AS-111D×2	AS-133D×2	AS-1512D×2	AS-1512D×2	AS-1512D×2
	Air Volume(CMM)	33	55	80	110	160	66	110	160	220	300	330
Motor(kW)	0.79	1.18	1.04	1.65	4.3	1.56	1.18×2	1.04×2	1.65×2	4.3×2	4.3×2	
압축기 Compressor	Type	밀폐식(Scroll Type)										
	Power(kW)	3.18	5.35	8.31	10.85	16.60	3.18×2	5.35×2	8.31×2	10.85×2	13.85×2	16.6×2
응축기 Condenser	Model	CD003-A	CD005-A	CD008-A	CD010-A	CD015-A	CD003-A	CD005-A	CD008-A	CD010-A	CD015-A	CD015-A
	Air Volume(CMM)	120	200	220	300	350	240	400	440	600	700	700
	Fan Dia(mm)	550	500×2	550×2	600×2	650×2	550×2	500×4	550×4	600×4	650×4	650×4
	Motor(kW)	0.4	0.4×2	0.4×2	0.4×2	0.75×2	0.4×2	0.4×4	0.4×4	0.4×4	0.75×4	0.75×4
증발기 Evaporator	Type	Multi-Pass, Cross Finned Tube Type										
	Face Area(m ²)	0.268	0.462	0.572	0.73	1.116	0.533	0.894	1.335	1.831	1.831	2.238
배관구경 Pipe Diameter	Suction	19.05	22.22	28.58	34.92	34.92	19.05	22.22	28.58	34.92	34.92	34.92
	Discharge	12.70	15.88	19.05	19.05	25.40	12.70	15.88	19.05	19.05	25.40	25.40
	Liquid Pipe	9.52	12.70	12.70	15.88	22.22	9.52	12.70	12.70	15.88	22.22	22.22
	Water Supply	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35
	Drain(mm)	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40
사용냉매 Refrigerant		R-407C / R-22										
전력소요량 Power consumption	kW	9.37(7.37)	14.33(10.33)	22.15(16.15)	28.30(19.30)	42.40(32.40)	18.72(14.72)	29.66(20.66)	40.30(30.30)	51.60(36.60)	69.30(51.30)	80.80(56.80)
	Supply electricity(V)	220										
전선용량	Thickness of wire(mm ²)	10(10)	16(10)	25(16)	25(16)	35(25)	25(16)	25(16)	35(25)	50(35)	70(50)	70(50)
	Supply electricity(V)	380										
	Thickness of wire(mm ²)	6(6)	10(6)	16(10)	16(10)	25(16)	16(10)	16(10)	25(16)	35(25)	50(35)	50(35)

- 재열기 용량은 실내 발열량에 따라 증감될 수 있습니다. (Reheater capacity can be fluctuated according to indoor calorific value.)
- 실제 기기에서 전력 사용량은 변경될 수도 있습니다. (Usage of electric power can be changed in the equipment (at Design standard: ET7.2°C / CT54.4°C))
- 상기냉방능력은 ET : 7.2°C, CT : 54.4°C 일때의 압축기설계기준입니다. (Design standard : ET 7.2°C / CT 54.4°C)
- 콘덴서열량은 압축기 냉각능력에 방열비 25 ~ 30%를 선정한다. (Design standard : 25~30%)
- Nominal 운전상태의 설계기준입니다. (Power consumption is based on design standard of nominal condition.)
- ()안은 IDC, 전산센터 및 난방부하가 필요없는 장소에 적용한다.

수냉식 | Water Cooled Type

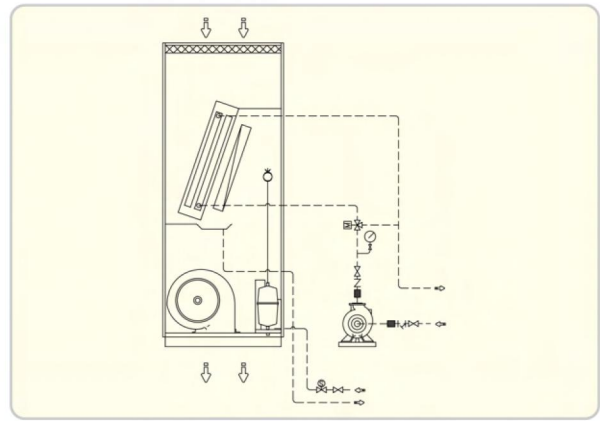


표준사양 (Technical Data)

Section	Model	Single Type					Dual Type					
		PA003-W1ST	PA005-W1ST	PA008-W1ST	PA010-W1ST	PA015-W1ST	PA006-W2ST	PA010-W2ST	PA015-W2ST	PA020-W2ST	PA025-W2ST	PA030-W2ST
Certification		CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE
Cooling Cap.	kcal/h	9,072	15,120	22,680	30,240	45,360	18,144	30,240	45,360	60,480	75,600	90,720
	kW	10.55	17.58	26.37	35.16	52.74	21.1	35.16	52.74	70.33	87.91	105.49
재열기 Reheater	kcal/h	4,300 (2,580)	6,020 (2,580)	10,320 (5,160)	12,900 (5,160)	17,200 (8,600)	8,600 (5,160)	12,900 (5,160)	17,200 (8,600)	21,500 (8,600)	25,800 (10,320)	30,960 (10,320)
	Type	STS-Aero Finned Tube Type										
	kW	5(3)	7(3)	12(6)	15(6)	20(10)	10(6)	15(6)	20(10)	25(10)	30(12)	36(12)
가습기 Humidifier	Lit/h	4	4	8	8	13	8	8	13	13	15	15
	Type	전자전극봉식 (Electrode type)										
	kW	3	3	6.1	6.1	9.9	6.1	6.1	9.9	9.9	11.4	11.4
송풍기 Ventilator	Type	Sirocco Fan Type										
	Model	AS-110D	AS-111D	AS-133D	AS-1512D	AS-1512D	AS-122D	AS-111D×2	AS-133D×2	AS-1512D×2	AS-1512D×2	AS-1512D×2
	Air Volume(CMM)	33	55	80	110	160	66	110	160	220	300	330
	Motor(kW)	0.79	1.18	1.04	1.65	4.3	1.56	1.18×2	1.04×2	1.65×2	4.3×2	4.3×2
압축기 Compressor	Type	밀폐식(Scroll Type)										
	Power(kW)	3.18	5.35	8.31	10.85	16.60	3.18×2	5.35×2	8.31×2	10.85×2	13.85×2	16.6×2
응축기 Condenser	Type	Shell and Tube Type / Plate Type										
	Flow,(LPM)	45	75	113	150	225	90	150	225	300	450	450
증발기 Evaporator	Type	Multi-Pass, Cross Finned Tube Type										
	Face Area(m ²)	0.268	0.462	0.572	0.73	1.116	0.525	0.894	1.335	1.831	1.831	2.238
배관구경 Pipe Diameter	Suction	19.05	22.22	28.58	34.92	34.92	19.05	22.22	28.58	34.92	34.92	34.92
	Discharge	12.70	15.88	19.05	19.05	25.40	12.70	15.88	19.05	19.05	25.40	25.40
	Liquid Pipe	9.52	12.70	12.70	15.88	22.22	9.52	12.70	12.70	15.88	22.22	22.22
	Water Supply	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35
	Drain(mm)	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40
	Plumbing	25A	32A	40A	50A	50A	40A	50A	50A	65A	80A	80A
사용냉매 Refrigerant		R-407C / R-22										
전력사용량 Power consumption	kW	8.97(6.97)	13.53(9.53)	21.35(15.35)	27.50(18.50)	40.90(30.90)	17.92(13.92)	28.06(19.06)	38.70(28.70)	49.80(34.80)	66.30(48.30)	77.80(53.80)
	Supply electricity(V)	220										
전선용량	Thickness of wire(mm ²)	10(10)	16(10)	25(16)	25(16)	35(25)	25(16)	25(16)	35(25)	50(35)	70(50)	70(50)
	Supply electricity(V)	380										
	Thickness of wire(mm ²)	6(6)	10(6)	16(10)	16(10)	25(16)	16(10)	16(10)	25(16)	35(25)	50(35)	50(35)

- 재열기 용량은 실내 발열량에 따라 증감될 수 있습니다. (Reheater capacity can be fluctuated according to indoor caloric value.)
- 실제 기기에서 전력 사용량은 변경될 수도 있습니다. (Usage of electric power can be changed in the equipment (at Design standard: ET7.2°C / CT54.4°C))
- 상기냉방능력은 ET : 7.2°C, CT : 54.4°C 일때의 압축기설계기준입니다. (Design standard : ET 7.2°C / CT 54.4°C)
- Nominal 운전상태의 설계기준입니다. (Power consumption is based on design standard of nominal condition)
- ()안은 IDC, 전산센터 및 난방부하가 필요없는 장소에 적용한다.
- 상기 냉각수 유량은 부동액(에틸렌 글리콜)이 20~30% 함유된 기준으로 선정되었음.

냉수공급식 | Chilled Water Type

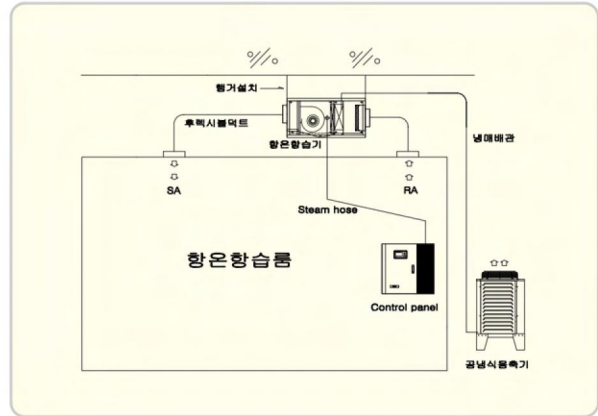


표준 사양 (Technical Data)

Model		PA003-C1ST	PA005-C1ST	PA006-C1ST	PA008-C1ST	PA010-C1ST	PA015-C1ST	PA020-C1ST	PA030-C1ST
Section	Model	PA003-C1ST	PA005-C1ST	PA006-C1ST	PA008-C1ST	PA010-C1ST	PA015-C1ST	PA020-C1ST	PA030-C1ST
	Section								
Cooling Cap.	kcal/h	9,072	15,120	18,144	22,680	30,240	45,360	60,480	90,720
	kW	10.55	17.58	21.10	26.37	35.16	52.74	70.33	105.49
재열기 Reheater	kcal/h	4,300	6,020	8,600	10,320	12,900	17,200	21,500	30,960
		(2,580)	(2,580)	(5,160)	(5,160)	(5,160)	(8,600)	(8,600)	(10,320)
	Type	STS-Aero Finned Tube Type							
	kW	5(3)	7(3)	10(6)	12(6)	15(6)	20(10)	25(10)	36(12)
가습기 Humidifier	Lit/h	4	4	8	8	8	13	13	15
	Type	전자전극봉식 (Electrode type)							
	kW	3	3	6.1	6.1	6.1	9.9	9.9	11.4
송풍기 Ventilator	Type	Sirocco Fan Type							
	Model	AS-110D	AS-111D	AS-122D	AS-133D	AS-1512D	AS-133Dx2	AS-1512Dx2	AS-1512Dx2
	Air Volume(CMM)	33	55	66	80	110	160	220	330
	Motor(kW)	0.79	1.18	1.56	1.04	1.65	1.04x2	1.65x2	4.3x2
쿨링코일 Cooling Coil	Type	Multi-Pass, Cross Finned Tube Type							
	Face Area(m ²)	0.254	0.42	0.496	0.537	0.73	1.247	1.619	2.188
	Row	5	5	5	5	5	5	5	5
배관구경 Pipe Diameter	Water Supply	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35
	Drain(mm)	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40
	Plumbing	25A	25A	32A	32A	40A	50A	50A	65A
Circulation Volume	Flow, (LPM)	30.2	50.4	60.5	75.6	100.8	151.2	201.6	302.4
전력소요량 Power consumption	kW	8.79(6.79)	11.18(7.18)	17.66(13.66)	19.14(13.14)	22.75(13.75)	31.98(21.98)	38.2(23.2)	56(32)
전선용량	Supply electricity(V)	220							
	Thickness of wire(mm ²)	10(10)	16(10)	25(16)	25(16)	25(16)	35(25)	35(25)	50(35)
	Supply electricity(V)	380							
	Thickness of wire(mm ²)	6(6)	10(6)	16(10)	16(10)	16(10)	25(16)	25(16)	35(25)
외형치수 Figure Size	상형식(WxDxH)	765x700x2,050	900x800x2,050	1,000x870x2,050	1,000x870x2,050	1,200x900x2,200	1,800x900x2,150	2,100x970x2,200	2,600x1,000x2,200
	하형식(WxDxH)	765x800x1,850	900x800x1,850	1,000x870x1,850	1,000x870x1,915	1,200x970x2,095	1,800x900x1,915	2,100x970x2,095	2,600x1,000x2,095
중량 (kg)	상형식	360	393	441	454	742	959	1,055	1,354
	하형식	388	420	471	485	725	906	1,003	1,315

- 냉각기(Chilling Unit) 또는 기존 냉동기에서 냉수(5~7℃)를 공급받을 경우 (In case of supplying cold water(5~7℃) from Chilling Unit or existing refrigerator)
- 재열기 용량은 실내 발열량에 따라 증감될 수 있습니다. (Reheater capacity can be fluctuated according to indoor caloric value.)
- 실제 기기에서 전력 사용량은 변경될 수도 있습니다. (Usage of electric power can be changed in the equipment.)
- Nominal 운전상태의 설계기준입니다. (Power consumption is based on design standard of nominal condition.)
- ()안은 IDC, 전산센터 및 난방부하가 필요없는 장소에 적용한다.

천정매입형 향온향습기 | Ceiling Type



표준사양 (Technical Data)

Section	Model	PA003-A1ST-C	PA005-A1ST-C
Cooling Cap.	kcal/h	9,072	15,120
	kW	10,55	17,58
재열기 Reheater	kcal/h	4,300	6,020
	Type	STS-Aero Finned Tube Type	
가습기 Humidifier	Lit/h	4	4
	Type	전자전극봉식 (Electrode Type)	
송풍기 Ventilator	kW	3	3
	Type	Sirocco Fan Type	
압축기 Compressor	Model	AS-910D × 2	AS-110D × 2
	Air Volume(CMM)	33	55
	Motor(kW)	0,38 × 2	0,79 × 2
응축기 Condenser	Type	밀폐식(Scroll Type)	
	Input Power (kW)	3,18	5,35
제어 Control	Model	CD003-A	CD005-A
	Air Volume(CMM)	120	200
	Fan Dia (mm)	550	500 × 2
증발기 Evaporator	Motor (kW)	0,4	0,4 × 2
	Type	Micom Control Type	
사용냉매 Refrigerant	Electricity	Thermostatic Type	
	Refrigerant	Multi-Pass Cross Finned Tube Type	
외형치수 Figure size	Type	Multi-Pass Cross Finned Tube Type	
	Front Size(m ²)	0,327	0,545
	사용냉매 Refrigerant	R-407C / R-22	
외형치수 Figure size	In Door Unit (H×L×D)	550 × 1100 × 1100	570 × 1300 × 1350
	Out Door Unit (H×L×D)	1085 × 835 × 782	1135 × 1315 × 732
	Control Panel (H×L×D)	700 × 730 × 250	700 × 730 × 250
전력사용량	kW	9,34	14,73
전선용량 380(220)	mm ²	6(10)	10(16)
중량	kg	220	300

• 실제 기기에서 전력 사용량은 변경될 수도 있습니다. (ET7,2c/ CT54,4c) (Usage of electric power can be changed in the equipment (at Design standard: ET7,2c/ CT54,4c))

부동액 냉각탑 | Ethylene Glycol Tower

Section	Model	Single Type					Dual Type					
		PA003-W1ST	PA005-W1ST	PA008-W1ST	PA010-W1ST	PA015-W1ST	PA006-W2ST	PA010-W2ST	PA015-W2ST	PA020-W2ST	PA025-W2ST	PA030-W2ST
Cooling Cap.	Model	EG003	EG005	EG008	EG010	EG015	EG006	EG010	EG015	EG020	EG025	EG030
	Air Volume(CMM)	80	140	200	270	400	160	270	400	540	700	850
	Fan Dia(mm)	550	650	600 × 2	650 × 2	650 × 3	550 × 2	650 × 2	650 × 3	700 × 3	700 × 4	700 × 5
	Motor(kW)	0,4	0,75	0,4 × 2	0,75 × 2	0,75 × 3	0,4 × 2	0,75 × 2	0,75 × 3	0,75 × 3	0,75 × 4	0,75 × 5
순환 펌프 Circulation Pump	Flow, (LPM)	45	75	113	150	225	90	150	225	300	450	450
	Motor(kW)	0,56	0,75	0,75	1,5	2,2	0,75	1,5	2,2	2,2	3,7	3,7

외형규격 | Dimension

상향식 (Up Flow Type)



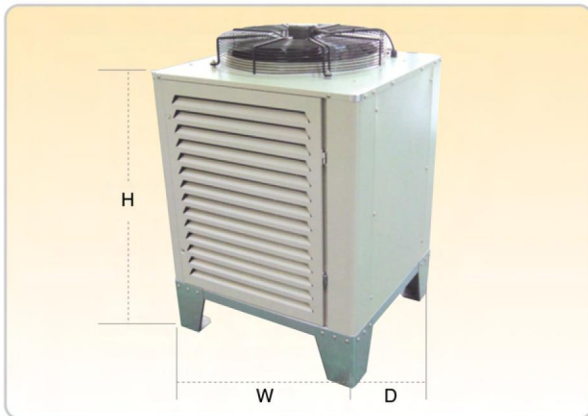
		Model	W	D	H	Weight(kg)
공냉식 Air Cooled Type	Single Type	PA003-A1ST-U	765	650	2050	260
		PA005-A1ST-U	900	800	2050	310
		PA008-A1ST-U	1000	870	2050	330
		PA010-A1ST-U	1200	900	2200	400
		PA015-A1ST-U	1500	970	2200	660
	Dual Type	PA006-A2ST-U	1000	870	2050	480
		PA010-A2ST-U	1500	830	2150	670
		PA015-A2ST-U	1800	870	2150	730
		PA020-A2ST-U	2100	970	2200	925
		PA025-A2ST-U	2100	1000	2200	1105
수냉식 Water Cooled Type	Single Type	PA003-W1ST-U	765	650	2050	300
		PA005-W1ST-U	900	800	2050	380
		PA008-W1ST-U	1000	870	2050	400
		PA010-W1ST-U	1200	900	2200	500
		PA015-W1ST-U	1500	970	2200	810
	Dual Type	PA006-W2ST-U	1000	870	2050	545
		PA010-W2ST-U	1500	830	2150	780
		PA015-W2ST-U	1800	870	2150	825
		PA020-W2ST-U	2100	970	2200	1030
		PA025-W2ST-U	2100	1000	2200	1175
PA030-W2ST-U	2600	1000	2200	1250		

하향식 (Down Flow Type)



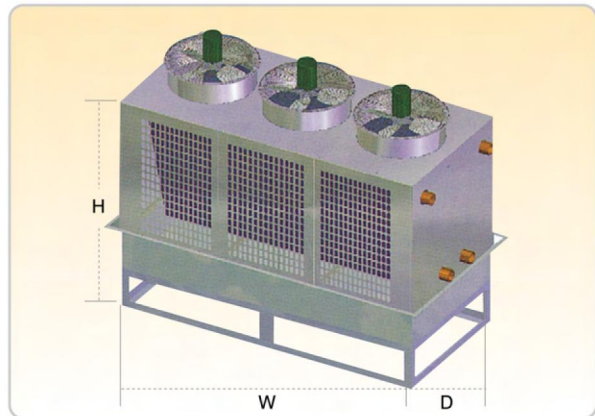
		Model	W	D	H	Weight(kg)
공냉식 Air Cooled Type	Single Type	PA003-A1ST-D	765	760	1850	260
		PA005-A1ST-D	900	750	1800	310
		PA008-A1ST-D	1000	870	1915	330
		PA010-A1ST-D	1200	970	2095	400
		PA015-A1ST-D	1500	970	2095	680
	Dual Type	PA006-A2ST-D	1000	870	1850	475
		PA010-A2ST-D	1500	830	1915	660
		PA015-A2ST-D	1800	870	1915	715
		PA020-A2ST-D	2100	970	2095	905
		PA025-A2ST-D	2100	1000	2095	1075
PA030-A2ST-D	2600	1000	2095	1100		
수냉식 Water Cooled Type	Single Type	PA003-W1ST-D	765	760	1850	300
		PA005-W1ST-D	900	750	1800	380
		PA008-W1ST-D	1000	870	1915	400
		PA010-W1ST-D	1200	970	2095	500
		PA015-W1ST-D	1500	970	2095	790
	Dual Type	PA006-W2ST-D	1000	870	1850	540
		PA010-W2ST-D	1500	830	1915	770
		PA015-W2ST-D	1800	870	1915	810
		PA020-W2ST-D	2100	970	2095	1010
		PA025-W2ST-D	2100	1000	2095	1145
PA030-W2ST-D	2600	1000	2095	1200		

공냉식 응축기 (Air Cooled Condenser)



Model	W	D	H	Weight (kg)	
				압축기(有)	압축기(無)
CD003-A	835	782	1085	129	89
CD005-A	1315	732	1135	170	133
CD008-A	1415	822	1195	236	167
CD010-A	1650	880	1300	280	207
CD015-A	1650	880	1400	325	251

부동액 냉각탑 (Ethylene Glycol Tower)



		Model	W	D	H	Weight (kg)
건식 Dry Type		EG008-D	1600	985	970	270
		EG010-D	1750	1140	970	340
		EG020-D	3300	1100	970	700
		EG030-D	4800	1100	970	850
습식 Wet Jetting		EG050-S	2410	1330	1745	2000
		EG070-S	3230	1330	1745	2500
		EG100-S	4450	1350	1760	3500
		EG120-S	4450	1350	2170	4000
		EG150-S	7320	1500	1930	5500

에이알은

세계 **제일의 품질**과 **완벽한 서비스**를 추구합니다.

사업안내

- 향온항습기
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- 공기조화기
- 가습기/제습기
- 향온항습 System
- Cooling System
- Clean Room System
- 냉동·냉장 System
- 각종 공조 냉동 응용장치
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(향온항습기, 냉동공조설비)
- 원격확인시스템

(주)에이알

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성 명:
연락처:
대리점:

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