

WATER SOURCE SYSTEM Maximum Flexibility

Acson water source system working principle is similar to that of a direct expansion system except water is used to cool down the condenser instead of air. Giving a better efficiency compared to air cooled. The whole process starts with the cooling tower where a continuous stream of water is circulated from the cooling water to the water packaged unit. Where the hear generated from the compression of refrigerant is transfer to the water. The water will then discharge the heat to the environment through evaporation at the cooling tower.



 * Picture is for illustration purpose only.

Features

No Visible Outdoor Unit

Acson water source system uses either tube in tube or shell and tube as the heat exchanger. There will be no unsightly outdoor unit visible.



Seaside Application

Since both indoor and outdoor will be placed in indoor environment. Water source system is economical choice for seaside application because exposure to the corrosive environment is kept to minimum.

Zoned Comfort & Control

Acson water source system provides space cooling for a large number of individual building zones such as individual dwelling units in a multi-unit building. An individual water source is installed in each space or zone is connected to a single circulating water loop. Using various sensors, each unit has its own control system. This enables the same occupants that are using the same cooling tower system to have multiple sets of setting depending on the particular water source packaged unit.



Easier, Lower Initial Installation & Expansion Cost

With so many indoor units to be choose from. Piping and duct work could be minimize.

Reliable & Stable Operation

Acson water source system utilize either a tube in tube or shell and tube heat exchanger. Both system standout in term of efficiency, cost and performance. Couple together with pressure switches, control logic, temperature sensors the system become efficient, economical yet reliable.



Lower Maintenance Cost

Acson water source products are designed with easier accessability, especially to the compressor, blower and control section. Removable top and side panel greatly reduce the time required in any maintenance work.

Energy Saving

Compare to conventional air-cooled air conditioning system, water source system yield better efficiency.

Quiet Operation

Acson water source system uses only water making it very quiet compared to conventional air-cooled air conditioning system.

Water Source Split Product Series - AWSS



Acson water source split (AWSS) system is one of the most efficient and high-performance systems. It is perfect for buildings that require cooling operation at different zones. With this, different areas or zones can be cooled at different temperatures simultaneously. The heat is rejected and added in a water loop using a cooling tower. The units are ready to install, operate and maintain.

Model: A5WSS 10 - 60DR

Nominal Cooling Capacity: 9,000 BTU/h - 48,500 BTU/h

Refrigerant: R410A

Features

Maximum Installation Flexibility

The compact, lower profile, as well as variety of indoor and outdoor combination, make it easier to fix specific architecture and potential design construction of the building, or replacement application space requirement.

Pipping Reduction Between Indoor & Outdoor

Since the unit can be concealed within the plaster ceiling, the piping between the indoor and condensing unit can be kept to a minimum.

Variety of Products for Combinations

Diversity is our strength, Acson water source split have few products and cooling capacity to be chosen from. Few combinations are available to be coupled with the condensing unit: Ceiling cassette and ceiling concealed.



Control - Standard ModBus interface of Building Automation System (BAS)



AWSS - DR & A5WCC - W/V (Coupled with Ceiling Concealed V/W Series)

			1	1		1	1	1	1		1		
Model			Indoor	A5WCC010W	A5WCC015W	A5WCC018W	A5WCC020W	A5WCC025V	A5WCC030V	A5WCC040V	A5WCC050V	A5WCC060V	
		Outdoor	A5WSS010DR	A5WSS015DR	A5WSS018DR	A5WSS020DR	A5WSS025DR	A5WSS030DR	A5WSS040DR	A5WSS050DR	A5WSS060DR		
Naminal Coo	Nominal Cooling Capacity BTU/I		BTU/hr	9,000	11,900	16,400	18,800	21,000	24,900	32,400	42,700	48,500	
TVOITIITIAI 000	iiig Oap	doity	W	2,650	3,500	4,800	5,500	6,150	7,300	9,500	12,500	14,200	
Nominal Inpu	t Power		W	645	855	1,370	1,420	1,550	1,850	2,350	3,100	3,800	
Nominal Run	ning Cui	rrent	А	3.04	4.02	7.00	7.00	7.43	8.79	11.09	6.52	8.08	
EER			BTU/h/W	13.95	13.92	11.97	13.24	13.55	13.46	13.79	13.77	12.76	
LLIT			W/W	4.11	4.09	3.50	3.87	3.97	3.95	4.04	4.03	3.74	
Power Source	e		V/Ph/Hz				220 - 240 / 1 / 50)			380 - 41	5/3/50	
INDOOR UN	IT												
Orantaral	Air Dis	scharge						DUCTED					
Control	Opera	ition					WI	RED OR WIRELE	:SS				
Air Flow	High		m³/h/CFM	450 / 265	620 / 365		900 / 530		1000 / 589	1700 / 1001	1900 / 1118	2400 / 1413	
External Stati	ic Press	ure	Pa		10(0	0/30)		10((30)	30(50)	30(50)	
		High	dBA	29	35	38	38	41	43	45	46	49	
Sound Pressi Level	ure	Medium	dBA	27	32	35	35	39	41	41	43	48	
		Low	dBA	25	29	32	32	36	39	39	40	47	
		Height	mm / in	210 / 8.27				250 / 9.84					
Unit Dimension	on	Width	mm / in	700 /	27.56	900 / 35.43 1190 / 4			46.85	1635 / 64.37	1635 / 64.37	1824 / 71.81	
		Depth	mm / in	450 / 17.72				490 / 19.29					
		Height	mm / in		230	/ 9.06				265 / 10.43			
Packing Dime	ension	Width	mm / in	860 /	33.86	1060 /	41.73	1211 /	47.68	1641 / 64.61	1641 / 64.61	1849 / 72.80	
		Depth	mm / in		540 /	21.26				520 / 20.47			
Condensate I	Drain	Туре						BSP- MALE					
Pipe		Size	mm / in	20.5 / 0.81"					19.05 / 3/4"				
Unit Weight			kg/lb	17.4 / 38.36 20/ 44.09 20 / 44			20 / 44	21.5 / 47 35 / 77			35 / 77	39.5 / 87.08	
OUTDOOR U	JNIT												
Nominal Wate	er Flow	Rate	l/s(m³/h)	0.16 / 0.57	0.21 / 0.75	0.29 / 1.03	0.33 / 1.18	0.37 / 1.32	0.44 / 1.57	0.57 / 2.04	0.75 / 2.69	0.85 / 3.05	
Water Pressu	re Drop		kPa	7	14	26	26	20	23	23	25	20	
Water Pipe	Туре			BSP - MALE									
Size	Side		mm / in				19.05 / 3/4"				25.4	/ 1"	
Sound Pressi	ure Leve	el	dBA	30 33			33	34 38			3	9	
		Height	mm / in	376 /	14.80		420 / 16.54		480 / 18.90	502 / 19.76	502 /	19.76	
Unit Dimension	on	Width	mm / in	466 /	18.35		521 / 20.51		622 / 24.49	690 / 27.17	690 /	27.17	
		Depth	mm / in	327 /	12.87		377 / 14.84		395 / 15.55	422 / 16.61	422 /	16.61	
Height Packing Dimension Width		Height	mm / in	435 /	17.13		480 / 18.90		540 / 21.26	560 / 22.05	560 /	22.05	
		Width	mm / in	525 /	20.67		585 / 23.03		690 / 27.17	790 / 31.10	790 / 31.10		
Depth		Depth	mm / in	335 /	13.19		390 / 15.35		405 / 15.94	440 / 17.32	440 /	17.32	
Unit Weight	Unit Weight kg/lb 28 / 62 3		30 / 66	38 / 84		39 / 86	61 / 134	63 / 139	76 / 168	78 / 172			
	Type							FLARE					
Pipe Connection	0:	Liquid	mm / in		6.35	/ 1/4"				9.52 / 3/8"			
	Size	Gas	mm / in	9.52 / 3/8"		12.7 / 1/2"	12.7 / 1/2"			15.88 / 5/8"			
Refrigerant Ty	уре							R410A					
Refrigerant C	harge		kg/lb	0.64 / 1.4	0.65 / 1.4	0.82	/ 1.8	1.1 / 2.4	1.17 / 2.6	1.8 / 4.0	1.6 / 3.5	2.1 / 4.6	
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- 1. All specification are subjected to change by the manufacturer without prior notice.
- 2. All units are being tested and comply to GB/T19409-2003.
- 3. Nominal cooling capacity are based on the condition below:

Indoor temperature	27°C DB / 19°C WB			
Condenser inlet water temperature	30°C			
Condenser outlet water temperature	35°C			

^{4.} Unit in parenthesis is available static pressure. Please contact us for further details.

AWSS - DR & A5WCK - V (Coupled with Ceiling Cassette - V Series)

Madal		Indoor	A5WCK020V	A5WCK030V	A5WCK050V				
Model			Outdoor	A5WSS020DR	A5WSS030DR	A5WSS050DR			
			BTU/hr	19,108	24,909	41,628			
Nominal Cooling Ca	pacity		W	5,600	7,300	12,200			
Nominal Input Powe	er		W	1,420	1,850	3,100			
Nominal Running C	urrent		А	7.00	8.79	6.52			
			BTU/h/W	13.46	13.46	13.43			
EER			W/W	3.94	3.95	3.94			
Power Source			V/Ph/Hz	220 - 24	40/1/50	380 - 415 / 3 / 50			
INDOOR UNIT									
	Air Dis	charge			AUTOMATIC LOUVER				
Control	Operat	ion			WIRED OR WIRELESS				
Air Flow	High		m³/h / CFM	1100 / 647	1150 / 677	1750 / 1030			
		High	dBA	42	42	50			
Sound Pressure Lev	/el	Medium	dBA	37	37	46			
		Low	dBA	34	34	43			
		Height	mm / in	265 /	10.43	315 / 12.40			
Unit Dimension		Width	mm / in						
		Depth	mm / in	820 / 32.28					
		Height	mm / in	325 / 12.80 375 / 14.76					
Packing Dimension		Width	mm / in	948 / 37.32					
		Depth	mm / in	918 / 36.14					
		Туре		BSP- MALE					
Condensate Drain F	Pipe	Size	mm / in	20.5 / 0.81"					
Unit Weight		<u>'</u>	kg / lb	32+5 / 71+11 35+5 / 77+11					
OUTDOOR UNIT									
Nominal Water Flow	/ Rate		l/s(m3/h)	0.33 / 1.2	0.44 / 1.57	0.73 / 2.62			
Water Pressure Drop	p		kPa	26	25				
	Туре								
Water Pipe Size	Side		mm / in	19.05	5 / 3/4"	25.4 / 1"			
Sound Pressure Lev	/el		dBA	33	34	39			
	Height		mm / in	420 / 16.54	480 / 18.90	502 / 19.76			
Unit Dimension	Width		mm / in	521 / 20.51	622 / 24.49	690 / 27.17			
	Depth		mm / in	377 / 14.84	395 / 15.55	422 / 16.61			
	Height		mm / in	480 / 18.90	540 / 21.26	560 / 22.04			
Packing Dimension	Width		mm / in	585 / 23.03	690 / 27.17	790 / 31.10			
Difficion	Depth		mm / in	390 / 15.35	405 / 15.94	440 / 17.32			
		kg / lb	38 / 83.78 61 / 134.48		76 / 167.55				
	Туре				FLARE	1			
Pipe Connection	0:	Liquid	mm / in	6.35 / 1/4"	9.52	/ 3/8"			
	Size	Gas	mm / in	12.7 / 1/2"	15.88	1/5/8"			
Refrigerant Type				R410A					
Refrigerant Charge			kg / lb	0.82 / 1.8	1.17 / 2.6	1.6 / 3.5			

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- 3. Nominal cooling capacity are based on the condition below:

Indoor temperature	27°C DB / 19°C WB
Condenser inlet water temperature	30°C
Condenser outlet water temperature	35°C

Water Cooled Packaged (Horizontal) Product Series - A5WH-D



Acson horizontal water-cooled packaged air conditioner is versatile with wide range of external static pressure up for selection, it is suitable for both commercial and industrial application. Using tube in tube as its heat exchanger. Acson horizontal water cooled packaged is an efficient yet economical choice.

Model: A5WH010D - 150D

Nominal Cooling Capacity: 9,400 BTU/h - 128,000 BTU/h

Refrigerant: R410A

Features

No Duct Work Needed

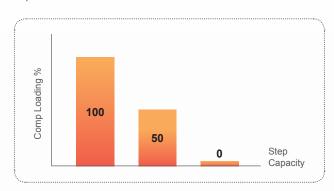
With range of external static pressure available. Acson horizontal water cooled packaged could be fitted with ducts or use as it is. Making it as an ideal choice for application that are unable to use chiller or as a backup to chiller.

Intelligent Control System

These series adapt various ways of control, including standard wired controller and a central controller (max to 64 units) as other options.

Partial Loading Capacity

For certain models, which have two or more compressors in their system, partial loading is achievable by switching on compressor depends on the needs.





A5WH 010D - A5WH 050D (Packaged Horizontal Type)

Model			A5WH 010D	A5WH 020D	A5WH 025D	A5WH 030D	A5WH 040D	A5WH 050D			
Namela di Occilia a	ominal Cooling Capacity		9,400	17,900	22,700	29,900	34,800	42,700			
Nominal Cooling	Capacity	W	2,750	5,250	6,650	8,770	10,200	12,500			
Nominal Input Po	ower	W	700	1,220	1,520	2,230	2,250	2,850			
Nominal Running	g Current	А	3.38	5.93	7.46	11.03	10.57	13.76			
FFD		BTU/h/W	13.43	14.67	14.93	13.41	15.47	14.98			
EER		W/W	3.93	4.30	4.38	3.93	4.53	4.39			
Expansion Device	е				CAPILLA	ARY TUBE					
Power Source		V/Ph/Hz			220 - 24	10/1/50					
Control	Air Discha	ırge			DUC	CTED					
Control	Operation		WIRED OR WIRELESS(OPTIONAL)								
Air Flow		m³/h / CFM	580 / 341	1,050 / 618	1,250 / 736	1,700 / 1,000	1,900 / 1,118	2,300 / 1,354			
External Static P	ressure	Pa / in.wg	20 / 0.08	30 / 0.12	30 / 0.12	30 / 0.12	50 / 0.2	50 / 0.2			
Sound Pressure	Level	dBA	34	40	45	48	44	47			
Condensate Dra	in Size	mm	20	20	20	20	20	20			
Water Pipe	Туре		BSP - MALE								
Connection	Size	mm / in	19.05 / 3/4"								
Condenser		Туре	TUBE IN TUBE								
Nominal Water F	low Rate	l/s (m³/h)	0.17 (0.61)	0.31 (1.12)	0.39 (1.42)	0.54 (1.94)	0.59 (2.14)	0.74 (2.67)			
Water Pressure [Orop	kPa	13	34	60	40	40	60			
	Height	mm / in	375 / 14.76	435 / 17.13	435 / 17.13	435 / 17.13	460 / 18.11	510 / 20.08			
Unit Dimension	Width	mm / in	895 / 35.24	1,265 / 49.80	1,265 / 49.80	1,390 / 54.72	1,450 / 57.09	1,450 / 57.09			
	Depth	mm / in	520 / 20.47	655 / 25.79	705 / 27.76	745 / 29.33	795 / 31.3	795 / 31.3			
	Height	mm / in	450 / 17.72	610 / 24.02	610 / 24.02	573 / 22.56	640 / 25.20	690 / 27.17			
Packing Dimension	Width	mm / in	990 / 38.98	1,350 / 53.15	1,340 / 52.76	1,430 / 56.30	1,580 / 62.2	1,580 / 62.2			
	Depth	mm / in	600 / 23.62	740 / 29.13	790 / 31.10	790 / 31.10	850 / 33.46	850 / 33.46			
Unit Weight		kg/lb	56 / 124	101 / 223	103 / 227	125 / 276	155 / 342	161 / 355			
Refrigerant Type			R410A								
Refrigerant Char	ge	kg/lb	0.74 / 1.63	1.35 / 2.98	1.46 / 3.22	0.95 x 2 / 2.09 x 2	1.3 x 2 / 2.87 x 2	1.55 x 2 / 3.42 x 2			

Notes:

- 1. All specification are subjected to change by the manufacturer without prior notice.
- 2. Nominal cooling capacity are based on the condition below:

Indoor temperature	27°C DB / 19°C WB			
Condenser inlet water temperature	30°C			
Condenser outlet water temperature	35°C			

3. Sound pressure level is measured from 1.4m below the unit.

A5WH 060D - A5WH 150D (Packaged Horizontal Type)

Model			A5WH 060D	A5WH 070D	A5WH 080D	A5WH 100D	A5WH 125D	A5WH 150D		
Nominal Cooling Capacity		BTU/h	54,600	64,800	85,300	100,700	114,300	128,000		
Norminal Cooling	Nominal Cooling Capacity		16,000	19,000	25,000	29,500	33,500	37,500		
Nominal Input Po	ower	W	3,300	4,900	5,600	6,300	8,500	9,450		
Nominal Running	g Current	А	5.91	8.63	11.45	13.68	15.89	17.78		
FED		BTU/h/W	16.55	13.22	15.23	15.98	13.45	13.54		
EER		W/W	4.85	3.88	4.46	4.68	3.94	3.97		
Expansion Device	е				CAPILLA	RY TUBE				
Power Source		V/Ph/Hz			380 - 41	5/3/50				
0 1 1	Air Discha	rge			DUC	CTED				
Control	Operation				WIRED OR WIRE	LESS(OPTIONAL)				
Air Flow		m³/h / CFM	2,800 / 1,648	3,400 / 2,001	5,000 / 2,943	6,000 / 3,531	7,000 / 4,120	8,000 / 4,709		
External Static P	ressure	Pa / in.wg	80 / 0.32	80 / 0.32	80 / 0.32	100 / 0.4	100 / 0.4	150 / 0.6		
Sound Pressure	Level	dBA	49	54	55	59	59	60		
Condensate Dra	in Size	mm	20	20	34	34	34	34		
Water Pipe	Туре		BSP - MALE BSP - FEMALE							
Connection	Size	mm / in	19.05 / 3/4" 25.4 / 1" 31.75 / 1-1/4"							
Condenser		Туре	TUBE IN TUBE							
Nominal Water F	low Rate	l/s (m³/h)	0.92 (3.3)	1.17 (4.22)	1.45 (5.23)	1.7 (6.12)	1.98 (7.11)	2.16 (7.78)		
Water Pressure [Orop	kPa	60	61	73	45	55	65		
	Height	mm / in	520 / 20.47	520 / 20.47	660 / 25.98	708 / 27.87	708 / 27.87	736 / 28.98		
Unit Dimension	Width	mm / in	1,580 / 62.20	1,670 / 65.75	1,756 / 69.13	1,970 / 77.56	1,970 / 77.56	2,226 / 87.64		
	Depth	mm / in	850 / 33.46	855 / 33.66	1,000 / 39.37	1,150 / 45.28	1,150 / 45.28	1,200 / 47.24		
	Height	mm / in	680 / 26.77	680 / 26.77	820 / 32.28	860 / 33.86	860 / 33.86	900 / 35.43		
Packing Dimension	Width	mm / in	1,636 / 64.41	1,750 / 68.90	1,820 / 71.65	2,020 / 79.53	2,020 / 79.53	2,315 / 91.14		
	Depth	mm / in	890 / 35.04	880 / 34.65	1,010 / 39.76	1,210 / 47.64	1,210 / 47.64	1,220 / 48.03		
Unit Weight		kg/lb	198 / 437	208 / 459	245 / 540	365 / 805	375 / 827	450 / 992		
Refrigerant Type			R410A							
Refrigerant Charge kg/lb			3.5 / 7.72	2.8 / 6.17	3.5 / 7.72	3.2 x 2 / 7.05 x 2	3.0 x 2 / 6.61 x 2	3.7 x 2 / 8.16 x 2		

Notes:

- 1. All specification are subjected to change by the manufacturer without prior notice.
- 2. Nominal cooling capacity are based on the condition below:

Indoor temperature	27°C DB / 19°C WB
Condenser inlet water temperature	30°C
Condenser outlet water temperature	35°C

3. Sound pressure level is measured from 1.4m below the unit.

Water Cooled Packaged (Floor Mounted) Product Series - AWCP

Model:

A4WCP120 - 680A A4WCP120AP - 220AP

Nominal Cooling Capacity: 109,200 BTU/h - 679,000 BTU/h

109,200 BTU/h - 679,000 BTU/h 109,200 BTU/h -218,400 BTU/h

> Refrigerant: R407C



Model: A5WCP 060A(P) - 710A

Nominal Cooling Capacity: 57,700 BTU/h - 700,000 BTU/h

Refrigerant: R410A

Acson floor mounted water cooled packaged is similar to its smaller counterpart, having multiple compressors with independent circuits. It is further enhanced by having a belt-driven system and plenum option. It also uses shell and tube to give a better performance compared to the horizontal unit.

Features

Free-Blow Air Conditioning Systems

An optional plenum is available for models A4WCP120AP to A4WCP220AP as well as A5WCP060A to A5WCP180A for free-blow application.

High Efficiency Hermetic Scroll Compressor

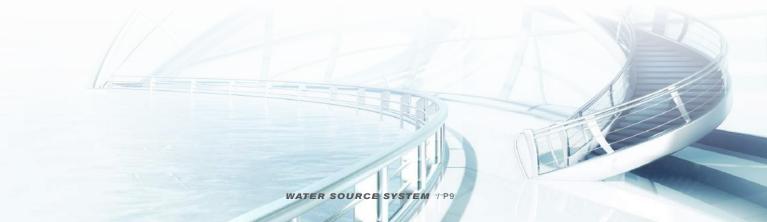
- Quiet Operation
- Excellent reliability with 70% fewer moving parts than comparably sized reciprocating compressors.
- Greater capability at handling liquid and debris in the system
- High efficiency performance.

Anti-Corrosion Unit Casing

The unit is constructed of an electro-galvanized steel body with epoxy polyester powder coating. Hence, the unit is suitable for both commercial and industrial application.

Enhanced Copper Tubes Condenser

Extra-high efficiency is attained by special designed shelland-tube condenser with "T" groove copper tube surfaces for superior refrigerant-water heat transfer.



A4WCP 120A(P) - A4WCP 380A

Model			A4WCP120A(P)	A4WCP160A(P)	A4WCP220A(P)	A4WCP250A	A4WCP280A	A4WCP320A	A4WCP380A		
		BTU/h	109,200	158,700	218,400	250,800	279,800	324,100	375,300		
Nominal Cooling Cap	oacity	W	32,000	46,500	64,000	73,500	82,000	95,000	110,000		
Nominal Input Powe	r	W	7,800	13,100	16,200	18,100	20,000	25,400	29,200		
Nominal Running Cu	ırrent	А	14.8	24.8	30.7	34.3	37.9	48.1	55.3		
		BTU/h/W	14.00	12.11	13.48	13.86	13.99	12.76	12.85		
EER		W/W	4.10	3.55	3.95	4.06	4.10	3.40	3.77		
Expansion Device		I		I	(CAPILLARY TUBE					
Power Source		V/Ph/Hz				380 - 415 / 3 / 50					
	Air Discharge	e				DUCTED					
Control	Operation		WIRED OR WIRELESS								
Air Flow		m³/h / CFM	5,900 / 3,473	8,100 / 4,767	10,800 / 6,357	13,600 / 8,005	14,500 / 8,534	17,000 / 10,006	19,800 / 11,65		
External Static Press	sure	Pa / in.wg	100 / 0.4 (0)	150 / 0.6 (0)	150 / 0.6 (0)	200 / 0.8	200 / 0.8	250 / 1.0	250 / 1.0		
Sound Pressure Leve	el	dBA	65	67	70	72	72	74	75		
Condensate Drain Si	ize	mm	25.4 / 1"								
Water Pipe	Туре	1	BSP - FEMALE								
Connection	Size	mm / in	31.75 / 1-1/4" 50.80 / 2"					50.80 /	2-1/2"		
Condenser		Туре	TUBE I	N TUBE	SHELL AND TUBE						
Nominal Water Flow	Rate	l/s (m³/h)	1.81 (6.5)	2.72 (9.8)	3.44 (12.4)	3.94 (14.2)	4.33 (15.6)	5.5 (19.8)	6.5 (23.4)		
Water Pressure Drop)	kPa	70	61	18	21	29	17	29		
	Height	mm / in	1,902 / 75 (2,172 / 86)	1,921 / 76 (2,195 / 86)	2,035 / 80 (2,404 / 95)	1,989 / 78	1,989 / 78	1,989 / 78	2,068 / 81		
Unit Dimension	Width	mm / in	1,278 / 50	1,722 / 68	1,922 / 76	2,000 / 79	2,000 / 79	2,000 / 79	2,220 / 87		
	Depth	mm / in	677 / 27	736 / 29	836 / 33	1,060 / 42	1,060 / 42	1,060 / 42	1,243 / 49		
	Height	mm / in	2,090 / 82 (2,410 / 95)	2,100 / 83 (2,410 / 95)	2,230 / 88 (2,530 /100)	2,150 / 85	2,150 / 85	2,150 / 85	2,240 / 88		
Packing Dimension	Width	mm / in	1,320 / 52	1,790 / 70	1,990 / 78	2,040 / 80	2,040 / 80	2,040 / 80	2,250 / 89		
	Depth	mm / in	720 / 28	780 / 31	895 / 35	1,110 / 44	1,110 / 44	1,110 / 44	1,290 / 51		
Unit Weight		kg/lb	280 / 617 (300 / 660)	455 / 1,003 (485 / 1,067)	610 / 1,344 (650 / 1,433)	720 / 1587	800 / 1,763	930 / 2,050	1,010 / 2,226		
			(000 / 000)	(1007 1,007)	(000 / 1,400)	R407C					
Refrigerant Type			1								

- 1. All specification are subjected to change by the manufacturer without prior notice.
- 2. Nominal cooling capacity are based on the condition below:

Indoor temperature	27°C DB / 19°C WB			
Condenser inlet water temperature	30°C			
Condenser outlet water temperature	35°C			

- 3. Sound pressure level is measured from 1m in front & below the unit.
- 4. Unit in the parentheses are applicable for the units with plenum.

A4WCP 420A - A4WCP 680A

Model			A4WCP420A	A4WCP460A	A4WCP480A	A4WCP520A	A4WCP620A	A4WCP680A		
Naminal Caslina Canasita		BTU/h	402,600	433,300	491,300	525,400	614,200	679,000		
Nominal Cooling Ca	pacity	W	118,000	127,000	144,000	154,000	180,000	199,000		
Nominal Input Powe	r	W	30,000	33,000	34,400	39,000	42,000	49,400		
Nominal Running Cu	ırrent	А	56.9	62.5	65.2	73.9	79.6	93.6		
		BTU/h/W	13.42	13.13	14.28	13.47	14.62	13.74		
EER		W/W	3.93	3.85	4.19	3.95	4.29	4.03		
Expansion Device					CAPILLA	RY TUBE				
Power Source		V/Ph/Hz			380 - 41	5/3/50				
	Air Discharge	е			DUC	TED				
Control	Operation		WIRED OR WIRELESS							
Air Flow		m³/h / CFM	22,000 / 12,949	22,000 / 12,949	24,600 / 14,479	26,400 / 15,538	28,800 / 16,951	33,000 / 19,423		
External Static Press	sure	Pa / in.wg	250 / 1.0	300 / 1.18	300 / 1.18	350 / 1.38	350 / 1.38	350 / 1.38		
Sound Pressure Lev	el	dBA	75	76	77	77	78	79		
Condensate Drain S	ize	mm	25.4 / 1"							
Water Pipe	Туре		BSP - FEMALE							
Connection	Size	mm / in	63.5 / 2-1/2" 76.2 / 3"							
Condenser	ı	Туре	SHELL AND TUBE							
Nominal Water Flow	Rate	l/s (m³/h)	6.5 (23.4)	7.78 (28)	7.28 (26.2)	8.58 (30.9)	10.3 (37.1)	11.08 (39.9)		
Water Pressure Drop)	kPa	20	29	28	33	60	80		
	Height	mm / in	2,068 / 81	2,068 / 81	2,068 / 81	2,068 / 81	2,068 / 81	2,083 / 82		
Unit Dimension	Width	mm / in	2,220 / 87	2,420 / 95	2,420 / 95	2,420 / 95	2,675 / 105	3,002 / 118		
	Depth	mm / in	1,243 / 49	1,243 / 49	1,243 / 49	1,243 / 49	1,243 / 49	1,534 / 60		
	Height	mm / in	2,240 / 88	2,240 / 88	2,240 / 88	2,240 / 88	2,240 / 88	2,330 / 91		
Packing Dimension	Width	mm / in	2,250 / 89	2,450 / 96	2,450 / 96	2,450 / 96	2,700 / 106	3,085 / 121		
	Depth	mm / in	1,290 / 51	1,290 / 51	1,290 / 51	1,290 / 51	1,290 / 51	1,700 / 67		
Unit Weight		kg/lb	1,030 / 2,270	1,225 / 2,700	1,235 / 2,722	1,250 / 2,755	1,350 / 2,975	1,400 / 3,086		
Refrigerant Type			R407C							
Refrigerant Charge		kg/lb	4.8 × 3 / 10.6 × 3	3.9 × 4 / 8.6 × 4	4.0 × 3 + 3.8 / 8.8 × 3 + 8.4	4.5 × 4 / 9.9 × 4	4.6 × 4 + 3.3 / 10.1 × 4+ 7.3	7.1 × 3 + 6.9 × 2 15.6 × 3 + 15.2		

Notes:

- 1. All specification are subjected to change by the manufacturer without prior notice.
- 2. Nominal cooling capacity are based on the condition below:

Indoor temperature	27°C DB / 19°C WB			
Condenser inlet water temperature	30°C			
Condenser outlet water temperature	35°C			

3. Sound pressure level is measured from 1m in front & below the unit.

Double Skin Water Cooled Packaged

(A5WCP-A)

The vertical double skin water cooled packaged air conditioner is the alternatives addressing the energy efficiency, indoor air quality and sound concerns for commercial, factory and supermarket applications.

Features:

1. Double Protection

All the framework is insulated with 1 inch double skin Polyurethane (PU) insulation panel and all frames are insulated with Polyethylene (PE) that is chemical resistant. PE is a resilient type closed-cell foam that ideal for shock absorbing, vibration dampening, minimize heat loss and avoid condensation to take place. Adding double skin PU insulation panel accomplishes few benefits:

- Excellent Thermal Barrier (prevent heat lost and sweating).
- Condensation Control
- Superior Silent Operation
 (lined with 1 inch sound-proof insulation to avoid transmission of vibration)
- Air Tightness

2. Control

All our R410A water cooled packaged controller have built-in RS485 port (Modbus BMS control)

3. Excellent filtration system

Rather than using conventional saranet filter, Acson double skin water cooled packaged is equipped with either R29 or G3 filter.



4. Flexible Drive Package

R410A water cooled packaged use belt-driven system. Hence, it is possible to regulate the external static pressure and air flow.



^{*50} mm double skin PU insulation panel is available upon request.

A5WCP0060A(P) - A5WCP0280A

Model		A5WCP0060A(P)	A5WCP0090A(P)	A5WCP0140A(P)	A5WCP0180A(P)	A5WCP0240A	A5WCP0280A		
Nominal Cooling Capacity		BTU/hr	57,700	87,200	132,500	173,900	231,900	284,700	
		W	16,900	25,600	38,800	51,000	68,000	83,400	
Nominal Input Power		W	4,550	6,940	10,410	13,350	18,160	19,950	
Nominal Running Current		А	9.72	14.37	21.9	26.81	35.67	41.78	
EER		BTU/h/W	12.68	12.56	12.73	13.03	12.77	14.27	
		W/W	3.71	3.69	3.73	3.82	3.74	4.18	
Expansion Device		1	TXV						
Power Source V/Ph/Hz		380 - 415 / 3 / 50							
Combrel	Air Discha	arge	DUCTED						
Control	Operation		WIRED						
Air Flow		m³/h / CFM	3,058 / 1,800	4,587 / 2,700	7,646 / 4,500	9,175 / 5,400	11,893 / 7,000	15,121 / 8,900	
External Static Pressure With Filter Pa /		Pa / in wg	250 / 1 (0)				250 / 1		
Sound Pressure Level		dBA	70	71	71	73	67	68	
Nominal Water Flow Rate		l/s (m³/h)	1 (3.6)	1.39 (5.0)	2.24 (8.05)	2.99 (10.76)	3.78 (13.62)	4.41 (15.89)	
Water Pressure Drop		kPa	10	16	12	16	13	13	
	Туре	'	BSP - FEMALE						
Water Pipe Connection	Size	mm / in	31.75 / 1-1/4" (RIGHT)		38.1 / 1-1/2" (RIGHT)		63.5 / 2-1/2" (RIGHT)	50.80 / 3" (RIGHT	
Condenser Typ		Туре	TUBE IN TUBE SHELL AND TUBE SHELL A					SHELL AND TUB	
Condensate Drain Size	Туре		BSP - MALE						
	Size	mm / in	31.75 / 1-1/4" (Right Side)		31.75 / 1-1/-		4" (Both Side)		
Unit Dimension	Height	mm / in	1,755 / 69.09 (2,055 / 80.91)	1,814 / 71.42 (2,114 / 83.23)	2,153 / 84.76 (2,453 / 96.57)	2,370 / 93.31 (2,670 / 105.12)	1,768 / 69.06	1,921 / 75.63	
	Width	mm / in	1,068 / 42.04	1,410 / 55.51	1,486	/ 58.50	1,576 / 62.04	1,576 / 62.04	
	Depth	mm / in	570 / 22.44		765 / 301.34		1,176 / 46.30	1,176 / 46.30	
Shipping Weight		kg / lb	160 / 353 (175 / 386)	241 / 531 (261 / 575)	416 / 917 (441 / 972)	470 / 1,036 (495 / 1,091)	558 / 1,230	658 / 1,451	
Operating Weight		kg / lb	162 / 357 (177 / 390)	245 / 540 (265 / 584)	423 / 933 (448 / 988)	476 / 1,049 (501 / 1,105)	566 / 1,248	667 / 1,470	
Refrigerant Type			R410A						
Refrigerant Charge		kg / lb	2 / 4.41	2.8 / 6.17	5.1 / 11.24	6.0 / 13.23	13.3 / 29.33	14.3 / 31.53	

- 1. All specification are subjected to change by the manufacturer without prior notice.
- 2. Nominal cooling capacity are based on the condition below:
- 3. The pipping orrientation is viewed from front panel.

Indoor temperature	27°C DB / 19°C WB
Condenser inlet water temperature	30°C
Condenser outlet water temperature	35°C

- 4. Sound Pressure Level is measured at open field and 1m from service (front) panel and ground.
- $5. \ \mbox{Unit}$ in the parentheses are applicable for the units with plenum.

A5WCP0320A - A5WCP0710A

Model			A5WCP0320A	A5WCP0360A	A5WCP0400A	A5WCP0520A	A5WCP0570A	A5WCP0710A	
Nominal Cooling Capacity		BTU/hr	314,000	356,900	400,500	518,900	568,300	700,700	
		W	92,000	104,600	117,400	152,100	166,600	205,400	
Nominal Input Power		W	25,780	29,910	33,140	43,620	43,980	57,600	
Nominal Running Current		А	47.98	62.42	68.40	83.13	82.96	103.7	
EER -		BTU/h/W	12.18	11.93	12.09	11.90	12.92	12.16	
		W/W	3.57	3.50	3.54	3.49	3.79	3.61	
Expansion Device		'	TXV						
Power Source V/Ph/Hz		380 - 415 / 3 / 50							
Control	Air Discha	arge	DUCTED						
Control	Operation	1	WIRED						
Air Flow		m³/h / CFM	18,689 / 11,000	20,048 / 11,800	21,747 / 12,800	24,636 / 14,500	26,335 / 15,500	36,189 / 21,300	
External Static Pressure V	Vith Filter	Pa / in wg	250 / 1						
Sound Pressure Level		dBA	70	68	79	80	77	79	
Nominal Water Flow Rate		l/s (m³/h)	5.18 (18.67)	5.66 (20.37)	6.78 (24.40)	8.50 (30.60)	9.31 (33.50)	11.36 (40.9)	
Water Pressure Drop		kPa	16	23	12	12	34	13	
	Туре		BSP - FEMALE						
Water Pipe Connection	Size	mm / in	63.5 / 2-1/2" (LEFT)						
Condenser		Туре	SHELL AND TUBE TUBE IN TUBE SHELL AND TUB			SHELL AND TUBE	TUBE IN TUBE		
Condensate Drain Size	Туре	'	BSP - MALE						
	Size	mm / in	1-1/4" (Both Side)						
Unit Dimension	Height	mm / in	1,798 / 70.79	2,204 / 86.77	1,907	75.09	2,096 / 82.52	1927 / 75.87	
	Width	mm / in	1,859 / 73.19		2691 / 105.95			3281 / 129.17	
	Depth	mm / in	1,282 / 50.47		1583 / 62.32			1584 / 62.36	
Shipping Weight		kg / lb	728 / 1,605	857 / 1,889	1,201 / 2,648	1,269 / 2,797	1,300 / 2,866	1,608 / 3,545	
Operating Weight		kg / lb	736 / 1,623	866 / 1,909	1,218 / 2,685	1,289 / 2,842	1,314 / 2,897	1,633 / 3,600	
Refrigerant Type		R410A							
Refrigerant Charge		kg / lb	9.4 x 2 / 20.7 x 2	9.5 x 2 / 20.9 x 2	6 x 3 / 13.2 x 2	7 x 3 / 15.4 x 3	17 x 2 / 37.5 x 2	9.4 x 3 / 20.7 x 3	

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- 3. The pipping orrientation is viewed from front panel.

Indoor temperature	27°C DB / 19°C WB
Condenser inlet water temperature	30°C
Condenser outlet water temperature	35°C

- 4. Sound Pressure Level is measured at open field and 1m from service (front) panel and ground.
- $5. \ \mbox{Unit}$ in the parentheses are applicable for the units with plenum.



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