

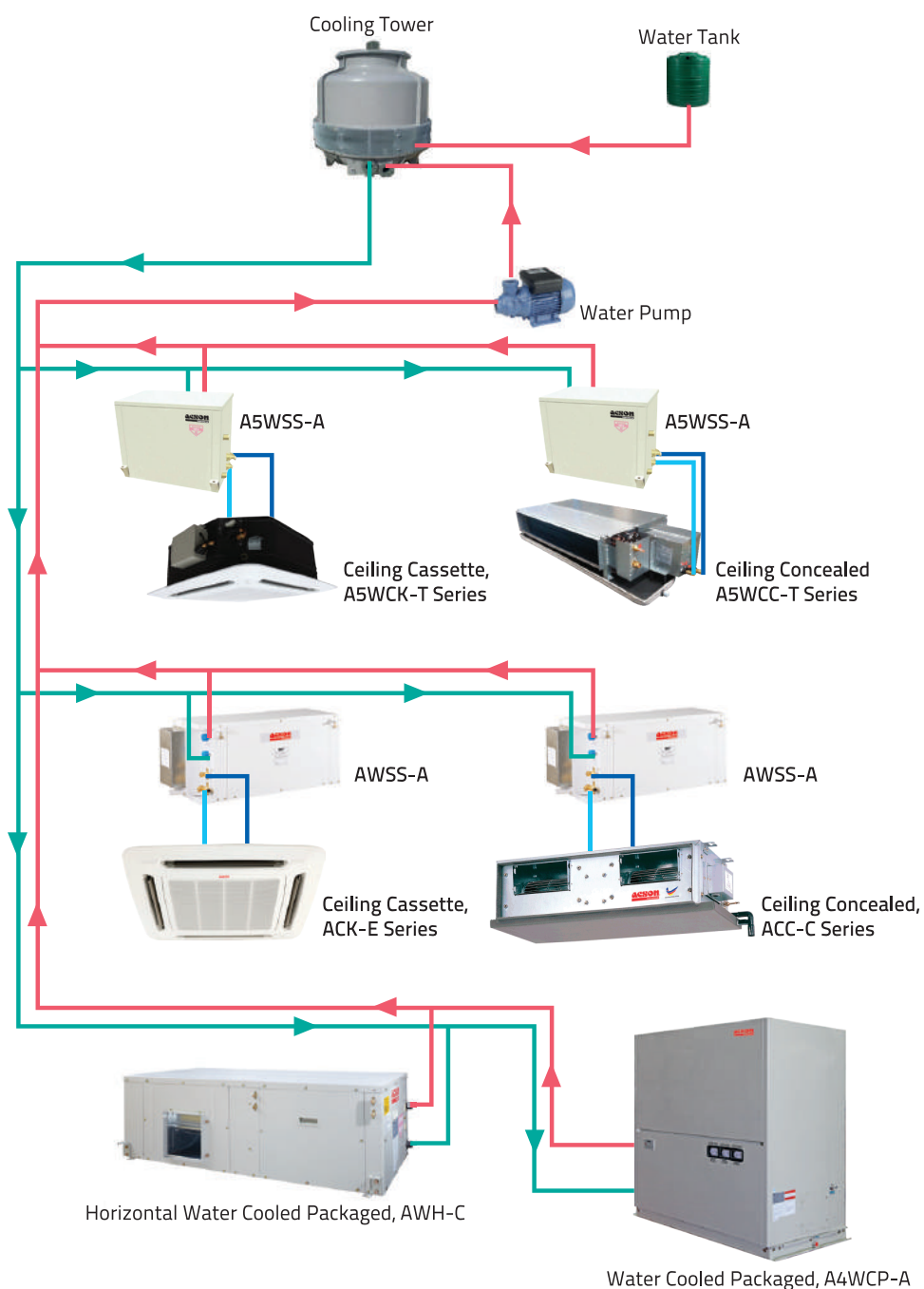
WATER SOURCE SYSTEM

Maximum Flexibility



AWSS-A / A5WSS-A
AWH-C / A5WH-D
A4WCP-A / A5WCP-A

WATER SOURCE SYSTEM Maximum Flexibility

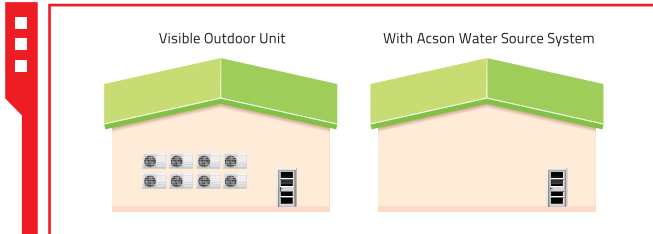


Acson water source system working principle is similar to that of a direct expansion system except water is used to cool down the condenser instead of air. Giving a better efficiency compare to air cooled. The whole process start with cooling tower where a continuous stream of water is circulated from the cooling tower to the water packaged unit. Where the heat 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.

Common 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.

● Lower Maintenance Cost

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

● 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-units building. Individual water source are installed in each space or zone is connected to a single circulating water loop.

Using various sensor, each unit have their own control system. This enable same occupants that are using the same cooling tower system have multiple set 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.



● Energy Saving

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

● Quiet Operation

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

WATER SOURCE SPLIT TYPE Product Series - AWSS



Model :
AWSS 30A - 60A

Capacity :
27,100 BTU/h - 54,000 BTU/h

Refrigerant :
R22



Model :
A5WSS 10-50DR

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

Refrigerant :
R410A

Acson water source split (AWSS) system is one of the most efficient and high performance systems. It is perfect for buildings that requires 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.

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.

● Piping 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 minimum.

● Control

Built-in modbus is available for A5WSS-A.

● Variety of Products for Combinations

Diversity is our strength, Acson water source split have wide ranges of products and cooling capacity to be choose from.

Variety of combinations are available to be coupled with the condensing unit: Ceiling Cassette and Ceiling Concealed.



AWSS 30A - AWSS 60A (Coupled with Ceiling Concealed)

Model	Indoor		ACC 30C	ACC 40C	ACC 50C	ACC 60C	
	Outdoor		AWSS 30A	AWSS 40A	AWSS 50A	AWSS 60A	
Nominal Cooling Capacity	BTU/h		27,100	40,800	48,500	53,700	
	W		7,940	11,945	14,200	15,730	
Nominal Total Input Power	W		2,220	3,050	3,650	4,430	
Nominal Running Current	A		12.2	5.4	6.8	7.9	
EER	BTU/h/W		12.21	13.38	13.29	12.12	
	W/W		3.58	3.92	3.89	3.55	
Power Source	V/Ph/Hz		220 ~ 240 / 1 / 50	380 ~ 415 / 3 / 50			
Indoor Unit	Control	Air Discharge		DUCTED			
		Operation		WIRED OR WIRELESS			
	Air Flow	High	m ³ /h (CFM)	1,342 / 790	1,682 / 990	2,175 / 1,280	2,888 / 1,700
		Medium	m ³ /h (CFM)	1,070 / 630	1,376 / 810	1,971 / 1,160	2,803 / 1,650
		Low	m ³ /h (CFM)	951 / 560	968 / 570	1,818 / 1,070	2,549 / 1,500
	Sound Pressure Level	dBA		46 / 42 / 38	49 / 45 / 41	52 / 50 / 47	53 / 50 / 47
	Unit Dimension	Height	mm / in	378 / 14.90			
		Width	mm / in	929 / 36.9	1,045 / 41.1	1,299 / 51.1	1,499 / 59.00
		Depth	mm / in	541 / 21.30			
	Packing Dimension	Height	mm / in	415 / 16.34			
		Width	mm / in	1,126 / 44.33	1,245 / 49.02	1,497 / 58.94	1,701 / 66.97
		Depth	mm / in	631 / 24.84			
	Condensate Drain Pipe	Size	mm / in	19.05 / 3/4"			
	Unit Weight	kg / lb		39 / 86	42 / 93	54 / 119	62 / 137
Outdoor Unit	Nominal Water Flow Rate	l/s (m ³ /h)		0.49 / 1.75	0.66 / 2.39	0.78 / 2.82	0.85 / 3.05
	Water Pressure Drop	kPa		42.2	57.0	66.2	86.5
	Water Pipe Size	Type		BSP - MALE			
		Side	mm / in	19.05 / 3/4"			
	Sound Pressure Level	dBA		39	38	38	40
	Unit Dimension	Height	mm / in	385 / 15.16	460 / 18.11	504 / 109.84	
		Width	mm / in	844 / 33.23	920 / 36.22		
		Depth	mm / in	419 / 16.5	550 / 21.6	649 / 65.5	
	Packing Dimension	Height	mm / in	548 / 21.6	610 / 24.0	652 / 25.7	
		Width	mm / in	922 / 36.3	975 / 38.4		
		Depth	mm / in	472 / 18.6	589 / 23.2	683 / 26.9	
	Unit Weight	kg / lb		57 / 126	79 / 173	92 / 203	105 / 203
	Pipe Connection	Type		FLARE			
		Size	Liquid	mm / in	9.52 / 3/8"		12.7 / 1/2"
Gas			mm / in	15.88 / 5/8"	19.05 / 3/4"		
Refrigerant Type	R22						
Refrigerant Charge	kg / lb		1.4 / 3.0	1.7 / 3.7	2.0 / 4.4	2.23 / 4.9	

Note:

- All specifications are subjected to change by the manufacturer without prior notice.
- All units are being tested and comply to ISO 13253.
- 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

- The indoor unit is tested under the GB standard - GB/D 17758:
Sound pressure level measurement point at 1.4m below the centre of the unit.
Tested with 2m length duct at the air discharge outlet and return inlet.

AWSS30A - AWSS 50A (Coupled With Ceiling Cassette - E series)

Model		Indoor	ACK 30E	ACK 40E	ACK 50E			
		Outdoor	AWSS 30A	AWSS 40A	AWSS 50A			
Nominal Cooling Capacity		BTU/h	29,800	37,200	46,200			
		W	8,734	10,903	13,540			
Nominal Total Input Power		W	2,233	2,794	3,726			
Nominal Running Current		A	10.2	7.5	9.8			
EER		BTU/h/W	13.35	13.31	12.40			
		W/W	3.91	3.90	3.63			
Power Source		V/Ph/Hz	220 ~ 240 / 1 / 50	380 ~ 415 / 3 / 50				
Indoor Unit	Control		Air Discharge			4 WAY AUTOMATIC LOUVER (UP AND DOWN)		
			Operation			WIRED OR WIRELESS		
	Air Flow		High	m ³ /h (CFM)	1,784 / 1,050	1,869 / 1,100	1,954 / 1,150	
			Medium	m ³ /h (CFM)	1,512 / 890	1,614 / 950	1,869 / 1,100	
			Low	m ³ /h (CFM)	1,325 / 780	1,461 / 860	1,461 / 860	
	Sound Pressure Level		dB(A)	46 / 43 / 39	46 / 44 / 40	50 / 44 / 40		
	Unit Dimension () - WITH PANEL		Height	mm / in	265 / 10.43 (340 / 13.39)	300 / 11.81 (375 / 14.76)		
			Width	mm / in	820 / 32.2 (990 / 38.98)			
			Depth	mm / in	820 / 32.2 (990 / 38.98)			
	Packing Dimension () - WITH PANEL		Height	mm / in	300 / 11.8 (110 / 4.33)	335 / 13.19 (110 / 4.3)		
			Width	mm / in	916 / 36.1 (1,030 / 40.6)			
			Depth	mm / in	916 / 36.1 (1,030 / 40.6)			
	Condensate Drain Pipe		Size	mm / in	19.05 / 3/4"			
Unit Weight () - WITH PANEL		kg / lb	29 + 6 (63.9 + 13.2)	42 + 6 (92.6 + 13.2)				
Outdoor Unit	Nominal Water Flow Rate		l/s (m ³ /h)	0.49 / 1.75	0.66 / 2.39	0.78 / 2.82		
	Water Pressure Drop		kPa	57.6	40.7	66.2		
	Water Pipe Size		Type				BSP - MALE	
			Side	mm / in	19.05 / 3/4"			
	Sound Pressure Level		dB(A)	39	38	38		
	Unit Dimension		Height	mm / in	385 / 15.16	460 / 18.11	504 / 109.84	
			Width	mm / in	844 / 33.23	920 / 36.22		
			Depth	mm / in	419 / 16.5	550 / 21.6	649 / 65.5	
	Packing Dimension		Height	mm / in	548 / 21.6	610 / 24.0	652 / 25.7	
			Width	mm / in	922 / 36.3	975 / 38.4		
			Depth	mm / in	472 / 18.6	589 / 23.2	683 / 26.9	
	Unit Weight		kg / lb	57 / 126	79 / 173	92 / 203		
	Pipe Connection		Type				FLARE	
Size			Liquid	mm / in	9.52 / 3/8"			
			Gas	mm / in	15.88 / 5/8"	19.05 / 3/4"		
Refrigerant Type		R22						
Refrigerant Charge		kg / lb	1.4 / 3.0	1.7 / 3.7	2.0 / 4.4			

Note:

- All specification are subjected to change by the manufacturer without prior notice.
- All units are being tested and comply to ISO 13253.
- 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

- The indoor unit is tested under the JIS C 9612 / 8615:
Sound Pressure Level measurement point at 1.4 or 1.5m (depends on model) below the centre of the unit.

A5WSS-DR & A5WCC-W/V (Coupled with Ceiling Concealed V/W Series)

Model	Indoor	A5WCC010W	A5WCC015W	A5WCC018W	A5WCC020W	A5WCC025V	A5WCC030V	A5WCC050V	A5WCC060V		
	Outdoor	A5WSS010DR	A5WSS015DR	A5WSS018DR	A5WSS020DR	A5WSS025DR	A5WSS030DR	A5WSS050DR	A5WSS060DR		
Nominal Cooling Capacity	BTU/h	9,000	11,900	16,400	18,800	21,000	24,900	42,700	48,500		
	W	2,650	3,500	4,800	5,500	6,150	7,300	12,500	14,200		
Nominal Total Input Power	W	645	855	1,370	1,420	1,550	1,850	3,100	3,800		
Nominal Running Current	A	3.04	4.02	7.00	7.00	7.43	8.79	6.52	8.08		
EER	BTU/h/W	13.95	13.92	11.97	13.24	13.55	13.46	13.77	12.76		
	W/W	4.11	4.09	3.50	3.87	3.97	3.95	4.03	3.74		
Power Source	V/Ph/Hz	220 - 240 / 1 / 50						380 - 415 / 3 / 50			
Indoor Unit	Control	Air Discharge		DUCTED							
		Operation		WIRED OR WIRELESS							
	Air Flow	High	m ³ /h (CFM)	450 / 265	620 / 365	900 / 530		1000 / 3400	1900 / 6500	2400 / 8200	
	External Static Pressure	Pa	10(0/30)			10(30)		30 (50)			
	Sound Pressure Level	High	dBA	29	35	38	38	41	43	46	49
		Medium	dBA	27	32	35	35	39	41	43	48
		Low	dBA	25	29	32	32	36	39	40	47
	Unit Dimension	Height	mm / in	210 / 8.27			250 / 9.84				
		Width	mm / in	700 / 27.56		900 / 35.43		1190 / 46.85		1635 / 64.37	1824 / 71.81
		Depth	mm / in	450 / 17.72			490 / 19.29				
	Packing Dimension	Height	mm / in	230 / 9.06			265 / 10.43				
		Width	mm / in	860 / 33.86		1060 / 41.73		1211 / 47.68		1641 / 64.61	1849 / 72.80
		Depth	mm / in	540 / 21.26			520 / 20.47				
	Condensate Drain Pipe	Type	BSP- MALE								
		Size	mm / in	20.5 / 0.81"			19.05 / 3/4"				
Unit Weight	kg / lb	17.4 / 38.36		20 / 44.09	20 / 44	21.5 / 47		35 / 77	39.5 / 87.08		
Outdoor Unit	Nominal Water Flow Rate	l/s (m ³ /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	0.75 / 2.69	0.85 / 3.05	
	Water Pressure Drop	kPa	7	14	26	26	20	23	25	20	
	Water Pipe Size	Type	BSP- MALE								
		Side	mm / in	19.05 / 3/4"						25.4 / 1"	
	Sound Pressure Level	dBA	30		33			34	39		
	Unit Dimension	Height	mm / in	376 / 14.80		420 / 16.54		480 / 18.90		502 / 19.76	
		Width	mm / in	466 / 18.35		521 / 20.51		622 / 24.49		690 / 27.17	
		Depth	mm / in	327 / 12.87		377 / 14.84		395 / 15.55		422 / 16.61	
	Packing Dimension	Height	mm / in	435 / 17.13		480 / 18.90		540 / 21.26		560 / 22.05	
		Width	mm / in	525 / 20.67		585 / 23.03		690 / 27.17		790 / 31.10	
		Depth	mm / in	335 / 13.19		390 / 15.35		405 / 15.94		440 / 17.32	
	Unit Weight	kg / lb	28 / 62	30 / 66	38 / 84		39 / 86	61 / 134	76 / 168	78 / 172	
	Pipe Connection	Type	FLARE								
		Size	Liquid	6.35 / 1/4"			9.52 / 3/8"				
			Gas	9.52 / 3/8"	12.7 / 1/2"			15.88 / 3/4"			
Refrigerant Type	R410A										
Refrigerant Charge	kg / lb	0.64 / 1.4	0.65 / 1.4	0.82 / 1.8		1.1 / 2.4	1.17 / 2.6	1.6 / 3.5	2.1 / 4.6		

Note:

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.

A5WSS-DR & A5WCK-V (Coupled with Ceiling Cassette - V Series)

Model		Indoor	A5WCK020V	A5WCK030V	A5WCK050V	
		Outdoor	A5WSS020DR	A5WSS030DR	A5WSS050DR	
Nominal Cooling Capacity	BTU/h		19,108	24,909	41,628	
	W		5,600	7,300	12,200	
Nominal Total Input Power	W		1,420	1,850	3,100	
Nominal Running Current	A		7.00	8.79	6.52	
EER	BTU/h/W		13.46	13.46	13.43	
	W/W		3.94	3.95	3.94	
Power Source	V/Ph/Hz		220 - 240/ 1 / 50		380 - 415 / 3 / 50	
Indoor Unit	Control	Air Discharge		AUTOMATIC LOUVER		
		Operation		WIRED OR WIRELESS		
	Air Flow	High	m ³ /h (CFM)	1100 / 647	1150 / 677	1750 / 1030
	Sound Pressure Level	High	dB(A)	42	42	50
		Medium	dB(A)	37	37	46
		Low	dB(A)	34	34	43
	Unit Dimension	Height	mm / in	265 / 10.43		315 / 12.40
		Width	mm / in	820 / 32.28		
		Depth	mm / in	820 / 32.28		
	Packing Dimension	Height	mm / in	325 / 12.80		375 / 14.76
		Width	mm / in	948 / 37.32		
		Depth	mm / in	918 / 36.14		
	Condensate Drain Pipe	Type		BSP- MALE		
		Size	mm / in	20.5 / 0.81"		
	Unit Weight	kg / lb		32+5 / 71+11		35+5 / 77+11
Nominal Water Flow Rate	l/s (m ³ /h)		0.33 / 1.2	0.44 / 1.57	0.73 / 2.62	
Water Pressure Drop	kPa		26	23	25	
Water Pipe Size	Type		BSP - MALE			
	Side	mm / in	19.05 / 3/4"		25.4 / 1"	
Sound Pressure Level	dB(A)		33	34	39	
Unit Dimension	Height	mm / in	420 / 16.54	480 / 18.90	502 / 19.76	
	Width	mm / in	521 / 20.51	622 / 24.49	690 / 27.17	
	Depth	mm / in	377 / 14.84	395 / 15.55	422 / 16.61	
Packing Dimension	Height	mm / in	480 / 18.90	540 / 21.26	560 / 22.04	
	Width	mm / in	585 / 23.03	690 / 27.17	790 / 31.10	
	Depth	mm / in	390 / 15.35	405 / 15.94	440 / 17.32	
Unit Weight	kg / lb		38 / 83.78	61 / 134.48	76 / 167.55	
Pipe Connection	Type		FLARE			
	Size	Liquid	mm / in	6.35 / 1/4"	9.52 / 3/8"	
		Gas	mm / in	12.7 / 1/2"	15.88 / 5/8"	
Refrigerant Type			R410A			
Refrigerant Charge	kg / lb		0.82 / 1.8	1.17 / 2.6	1.6 / 3.5	

Note:

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

WATER COOLED PACKAGED (HORIZONTAL) Product Series - AWH



Model :
AWH 028C - 350C

Capacity :
27,700 BTU/h - 322,400 BTU/h

Refrigerant :
R22

Model :
A5WH 010D - 150D

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

Refrigerant :
R410A

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 package is an efficient yet economical choice.

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.

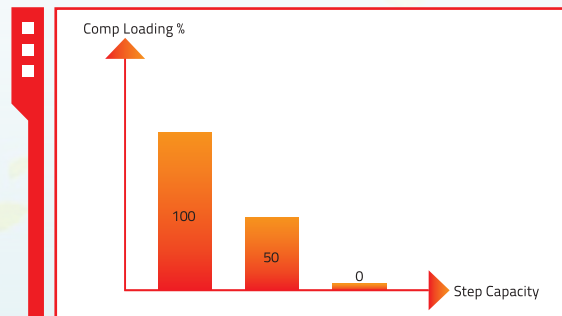
● Convertible Discharge

All models come with horizontal discharge. However, it can be converted to top discharge depending on site requirement.

*Applicable for AWH 180C to AWH 350C

● Partial Loading Capability

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



AWH 028C - AWH 070C (Packaged Horizontal Type)

Model		AWH028C	AWH030C	AWH040C	AWH050C	AWH060C	AWH065C	AWH070C
Nominal Cooling Capacity	BTU/h	27,700	30,500	42,300	43,100	51,100	60,400	68,200
	W	8,130	8,930	12,400	12,640	14,980	17,700	20,000
Nominal Input Power	W	2,070	2,390	3,050	3,380	4,300	4,800	5,350
Nominal Running Current	A	10.31	11.88	15.21	8.14	10.68	12.16	13.63
EER	BTU/h/W	13.38	12.76	13.87	12.75	11.88	12.58	12.75
	W/W	3.93	3.74	4.07	3.74	3.48	3.69	3.74
Expansion Device		CAPILLARY TUBE						
Power Source		220 - 240 / 1 / 50			380 - 415 / 3 / 50			
Control	Air Discharge	DUCTED						
	Operation	WIRED OR WIRELESS (OPTIONAL)						
Air Flow	m ³ / h / CFM	1,650 / 970	1,700 / 1,001	2,100 / 1,237	2,300 / 1,355	2,700 / 1,591	3,350 / 1,973	3,350 / 1,973
External Static Pressure	Pa / in.wg	30 / 0.12		50 / 0.2	80 / 0.32			100 / 0.4
Sound Pressure Level	dB(A)	47	47	45	45	46	53	53
Condensate Drain Size	Type	BSP - MALE						
	mm	Ø20 (One Side)						
Water Pipe Connection	Type	BSP - MALE						
	Size	19.05 / 3/4"			25.4 / 1"			
Condenser		TUBE IN TUBE						
Nominal Water Flow Rate	l / s (m ³ /h)	0.5 (1.80)	0.56 (2.00)	0.73 (2.62)	0.76 (2.72)	0.97 (3.50)	0.97 (3.49)	1.19 (4.30)
Water Pressure Drop	kPa	10	11	23	16	20	27	32
Unit Dimension	Height	365 / 14.4		434 / 17.1	500 / 19.7			
	Width	1,242 / 48.9			1,300 / 51.2			
	Depth	744 / 29.3		794 / 31.3	790 / 31.1			
Packing Dimension	Height	520 / 20.47		574 / 22.6	640 / 25.20			
	Width	1,326 / 52.2		1,386 / 54.57	1,420 / 55.91			
	Depth	770 / 30.31		820 / 32.28	840 / 33.07			
Unit Weight	kg / lb	109 / 204	111 / 245	132 / 291	157 / 346	162 / 357	172 / 379	177 / 379
Refrigerant Type		R22						
Refrigerant Charge	kg / lb	0.55 x 2 / 1.21 x 2	0.7 x 2 / 1.54 x 2	0.65 x 2 / 1.43 x 2	1.55 / 3.42	1.75 / 3.86	2.1 / 4.63	2.35 / 5.18

Note:

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.

AWH 080C - AWH 350C (Packaged Horizontal Type)

Model		AWH080C	AWH100C	AWH125C	AWH150C	AWH180C	AWH200C	AWH250C	AWH300C	AWH350C	
Nominal Cooling Capacity	BTU/h	88,700	104,100	122,800	136,500	170,600	209,800	245,700	269,600	322,400	
	W	26,000	30,500	36,000	40,000	50,000	61,500	72,000	79,000	94,500	
Nominal Input Power	W	6,350	7,450	8,150	9,450	13,000	16,100	16,500	20,000	25,000	
Nominal Running Current	A	13.9	16.2	17.3	21.8	27.90	34.60	34.80	46.00	51.80	
EER	BTU/h/W	13.97	13.97	15.07	14.44	13.12	13.03	14.89	13.48	12.90	
	W/W	4.09	4.09	4.42	4.23	3.85	3.82	4.36	3.95	3.78	
Expansion Device		CAPILLARY TUBE									
Power Source		V/Ph/Hz 380 - 415 / 3 / 50									
Control	Air Discharge	DUCTED									
	Operation	WIRED OR WIRELESS (OPTIONAL)									
Air Flow	m ³ / h / CFM	5,000 / 2,943	6,000 / 3,532	7,000 / 4,120	8,000 / 4,710	9,200 / 5,410	11,000 / 6,468	13,000 / 7,644	15,000 / 8,820	17,000 / 9,996	
External Static Pressure	Pa / in.w.g	100 / 0.4			150 / 0.6			200 / 0.8		450 / 1.81	
Sound Pressure Level	dB(A)	55	56	57	57	61	65	63	68	77	
Condensate Drain Size	Type	BSP - MALE									
	mm	Ø34 (One side)				Ø25.4 (Two side)					
Water Pipe Connection	Type	BSP - MALE				BSP - FEMALE					
	Size mm / in	31.75 / 1-1/4"				38.1 / 1-1/2"			50.8 / 2"		
Condenser		TUBE IN TUBE									
Nominal Water Flow Rate	l / s (m ³ /h)	1.47 (5.3)	1.89 (6.79)	2.08 (7.48)	2.33 (8.4)	2.93 (10.54)	3.72 (13.4)	4.28 (15.4)	4.69 (16.9)	5.86 (21.1)	
Water Pressure Drop	kPa	16	25	34	44	45	65	45	45	45	
Unit Dimension	Height	mm / in	650 / 25.59	650 / 25.59	736 / 28.9	736 / 28.9	1,175 / 46.2	1,175 / 46.2	1,340 / 52.8	1,340 / 52.8	1,400 / 55.1
	Width	mm / in	1,829 / 72.0	1,829 / 72.0	2,193 / 86.3	2,193 / 86.3	1,745 / 68.7	1,745 / 68.7	2,000 / 78.7	2,000 / 78.7	2,350 / 92.5
	Width	mm / in	1,150 / 45.3	1,150 / 45.3	1,200 / 47.2	1,200 / 47.2	1,207 / 47.5	1,207 / 47.5	1,207 / 47.5	1,207 / 47.5	1,207 / 47.5
Packing Dimension	Height	mm / in	817 / 32.17	817 / 32.17	896 / 35.28	896 / 35.28	1,245 / 49.01	1,245 / 49.01	1,410 / 55.51	1,410 / 55.51	1,470 / 57.87
	Width	mm / in	1,920 / 75.59	1,920 / 75.59	2,285 / 89.96	2,285 / 89.96	1,795 / 70.67	1,795 / 70.67	2,040 / 80.31	2,040 / 80.31	2,390 / 94.09
	Width	mm / in	1,160 / 45.67	1,160 / 45.67	1,220 / 48.03	1,220 / 48.03	1,250 / 49.21	1,250 / 49.21	1,250 / 49.21	1,250 / 49.21	1,250 / 49.21
Unit Weight	kg / lb	310 / 683	335 / 739	420 / 926	445 / 981	560 / 1,235	610 / 1,345	750 / 1,653	810 / 1,786	860 / 1,896	
Refrigerant Type		R22									
Refrigerant Charge	kg / lb	1.65 x 2 / 3.64 x 2	1.8 x 2 / 3.97 x 2	2.1 x 2 / 4.63 x 2	1.85 x 2 / 4.08 x 2	1.5 x 4 / 3.31 x 4	1.6 x 4 / 3.53 x 4	1.8 x 4 / 3.97 x 4	1.9 x 4 / 4.19 x 4	2.1 x 5 / 4.63 x 5	

Note:

- All specifications are subjected to change by the manufacturer without prior notice.
- 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

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

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

Model		A5WH 010D	A5WH 020D	A5WH 025D	A5WH 030D	A5WH 040D	A5WH 050D	
Nominal Cooling Capacity	BTU/h	9,400	17,900	22,700	29,900	34,800	42,700	
	W	2,750	5,250	6,650	8,770	10,200	12,500	
Nominal Input Power	W	700	1,220	1,520	2,230	2,250	2,850	
Nominal Running Current	A	3.38	5.93	7.46	11.03	10.57	13.76	
EER	BTU/h/W	13.43	14.67	14.93	13.41	15.47	14.98	
	W/W	3.93	4.30	4.38	3.93	4.53	4.39	
Expansion Device		CAPILLARY TUBE						
Power Source		V/Ph/Hz						
		220 / 1 / 50						
Control	Air Discharge	DUCTED						
	Operation	WIRED OR WIRELESS (OPTIONAL)						
Air Flow	m ³ / h / CFM	580 / 341	1,050 / 618	1,250 / 736	1,700 / 1,000	1,900 / 1,118	2,300 / 1,354	
External Static Pressure	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 Drain Size	mm	20	20	20	20	20	20	
Water Pipe Connection	Type	BSP - MALE						
	Size	mm / in						
		19.05 / 3/4"						
Condenser		Type						
		TUBE IN TUBE						
Nominal Water Flow Rate	l / s (m ³ /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 Drop	kPa	13	34	60	40	40	60	
Unit Dimension	Height	mm / in	375 / 14.76	435 / 17.13	435 / 17.13	435 / 17.13	460 / 18.11	510 / 20.08
	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
Packing Dimension	Height	mm / in	450 / 17.72	610 / 24.02	610 / 24.02	573 / 22.56	640 / 25.20	690 / 27.17
	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 Charge	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	

Note:

1. All specifications 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	
	W	16,000	19,000	25,000	29,500	33,500	37,500	
Nominal Input Power	W	3,300	4,900	6,300	6,300	8,500	9,450	
Nominal Running Current	A	5.91	8.63	11.45	13.68	15.89	17.78	
EER	BTU/h/W	16.55	13.22	15.23	15.98	13.45	13.54	
	W/W	4.85	3.88	4.46	4.68	3.94	3.97	
Expansion Device		CAPILLARY TUBE						
Power Source		V/Ph/Hz						
		380 / 3 / 50						
Control	Air Discharge	DUCTED						
	Operation	WIRED OR WIRELESS (OPTIONAL)						
Air Flow	m ³ / 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 Pressure	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 Drain Size	mm	20	20	34	34	34	34	
Water Pipe Connection	Type	BSP - MALE					BSP - FEMALE	
	Size	mm / in	19.05 / 3/4"	25.4 / 1"	31.75 / 1-1/4"			
Condenser		TUBE IN TUBE						
Nominal Water Flow Rate	l / s (m ³ /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 Drop	kPa	60	61	73	45	55	65	
Unit Dimension	Height	mm / in	520 / 20.47	520 / 20.47	660 / 25.98	708 / 27.87	708 / 27.87	736 / 28.98
	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
Packing Dimension	Height	mm / in	680 / 26.77	680 / 26.77	820 / 32.28	860 / 33.86	860 / 33.86	900 / 35.43
	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	

Note:

- All specifications are subjected to change by the manufacturer without prior notice.
- 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

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

WATER COOLED PACKAGED (FLOOR MOUNTED) Product Series - AWCP



Model :
A4WCP120 - 680A
A4WCP120AP - 220AP

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

Refrigerant :
R407C



Model :
A5WCP 060A(P) - 570A

Capacity :
57,700 BTU/h - 570,000 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 horizontal unit.

Features

● Free-Blow Air-Conditioning Systems

An optional Plenum is available for models A4WCP120AP to A4WCP220AP and A5WCP060A to A5WCP180A, for free-blow application.

● Anti-Corrosion Unit Casing

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

● Enhanced Copper Tubes Condenser

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

A4WCP 120A - A4WCP 320A

Model		A4WCP120A	A4WCP160A	A4WCP220A	A4WCP250A	A4WCP280A	A4WCP320A	
Nominal Cooling Capacity	BTU/h	109,200	158,700	218,400	250,800	279,800	324,100	
	W	32,000	46,500	64,000	73,500	82,000	95,000	
Nominal Input Power	W	7,800	13,100	16,200	18,100	20,000	25,400	
Nominal Running Current	A	14.8	24.8	30.7	34.3	37.9	48.1	
EER	BTU/h/W	14.00	12.11	13.48	13.86	13.99	12.76	
	W/W	4.10	3.55	3.95	4.06	4.10	3.40	
Expansion Device		CAPILLARY TUBE						
Power Source		V/Ph/Hz						
		380 - 415 / 3 / 50						
Control	Air Discharge	DUCTED	DUCTED	DUCTED	DUCTED	DUCTED	DUCTED	
	Operation	WIRED OR WIRELESS						
Air Flow	m ³ / 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	
External Static Pressure With Filter	Pa / in.wg	100 / 0.4 (0)	150 / 0.6 (0)	150 / 0.6 (0)	200 / 0.8	200 / 0.8	250 / 1.0	
Sound Pressure Level	dBA	65	67	70	72	72	74	
Condensate Drain Size	mm / in	25.4 / 1"						
Water Pipe Connection	Type	BSP - FEMALE						
	Size	mm / in	31.75 / 1-1/4"	50.80 / 2"	50.80 / 2"	50.80 / 2"	50.80 / 2"	63.5 / 2-1/2"
Condenser		TUBE IN TUBE		SHELL AND TUBE				
Nominal Water Flow Rate	l / s (m ³ /h)	1.81 (6.3)	2.72 (9.7)	3.64 (12)	4 (14.4)	4.11 (14.8)	5.36 (19.3)	
Water Pressure Drop	kPa	76	65	35	17.2	22.5	16.6	
Unit Dimension	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
	Width	mm / in	1,278 / 50	1,722 / 68	1,922 / 76	2,000 / 79	2,000 / 79	2,000 / 79
	Depth	mm / in	677 / 27	736 / 29	836 / 33	1,060 / 42	1,060 / 42	1,060 / 42
Packing Dimension	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
	Width	mm / in	1,320 / 52	1,790 / 70	1,990 / 78	2,040 / 80	2,040 / 80	2,040 / 80
	Depth	mm / in	720 / 28	780 / 31	895 / 35	1,110 / 44	1,110 / 44	1,110 / 44
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	
Refrigerant Type		R407C						
Refrigerant Charge	kg / lb	2.9 / 6.39	3.1+1.45 / 6.83+3.2	3.7+3.9 / 8.16+8.6	4.0 × 2 / 8.8 × 2	4.2 × 2 / 9.2 × 2	7.3 × 2+2.7 / 16 × 2+5.4	

Note:

- All specification are subjected to change by the manufacturer without prior notice.
- 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

- Sound Pressure Level is measure from 1m in front and below the unit.
- Unit in the parentheses are applicable for the units with plenum.

A4WCP 380A - A4WCP 680A

Model		A4WCP380A	A4WCP420A	A4WCP460A	A4WCP480A	A4WCP520A	A4WCP620A	A4WCP680A	
Nominal Cooling Capacity	BTU/h	375,300	402,600	433,300	491,300	525,400	614,200	679,000	
	W	110,000	118,000	127,000	144,000	154,000	180,000	199,000	
Nominal Input Power	W	29,200	30,000	33,000	34,400	39,000	42,000	49,400	
Nominal Running Current	A	55.3	56.9	62.5	65.2	73.9	79.6	93.6	
EER	BTU/h/W	12.85	13.42	13.13	14.28	13.47	14.62	13.74	
	W/W	3.77	3.93	3.85	4.19	3.95	4.29	4.03	
Expansion Device		CAPILLARY TUBE							
Power Source	V/Ph/Hz	380 - 415 / 3 / 50							
Control	Air Discharge	DUCTED	DUCTED	DUCTED	DUCTED	DUCTED	DUCTED	DUCTED	
	Operation	WIRED OR WIRELESS							
Air Flow	m ³ / h / CFM	19,800 / 11,654	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 Pressure With Filter	Pa / in.wg	250 / 1.0	250 / 1.0	300 / 1.18	300 / 1.18	350 / 1.38	350 / 1.38	350 / 1.38	
Sound Pressure Level	dBA	75	75	76	77	77	78	79	
Condensate Drain Size	mm / in	25.4 / 1"							
Water Pipe Connection	Type	BSP - FEMALE							
	Size	63.5 / 2-1/2"	63.5 / 2-1/2"	63.5 / 2-1/2"	63.5 / 2-1/2"	76.2 / 3"	76.2 / 3"	76.2 / 3"	
Condenser	Type	SHELL AND TUBE							
Nominal Water Flow Rate	l / s (m ³ /h)	6.5 (23.4)	6.58 (23.7)	7.58 (27.3)	7.92 (28.5)	8.19 (29.5)	(10.17) 36.6	(13.36) 48.1	
Water Pressure Drop	kPa	25	22.3	29.6	29.8	38.9	37.6	78.5	
Unit Dimension	Height	mm / in	2,068 / 81	2,068 / 81	2,068 / 81	2,068 / 81	2,068 / 81	2,068 / 81	2,083 / 82
	Width	mm / in	2,220 / 87	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	1,243 / 49	1,534 / 60
Packing Dimension	Height	mm / in	2,240 / 88	2,240 / 88	2,240 / 88	2,240 / 88	2,240 / 88	2,240 / 88	2,330 / 91
	Width	mm / in	2,250 / 89	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	1,290 / 51	1,700 / 67
Unit Weight	kg / lb	1,010 / 2,226	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	4.7 × 3 / 10.3 × 3	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	

Note:

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 at open field and 1m from service (front) panel and ground.
4. Unit in the parentheses are applicable for the units with plenum.

A5WCP-A Series (R410A Models Features)

✓ R410A The Refrigerant of Tomorrow

Unlike the other hydrofluorocarbon (HCFC) refrigerants, R410A is a near-azeotropic mixture of 50% R32 and 50% R125 which has zero Ozone Depletion Potential (ODP). In other words, R410A does not contribute to ozone depletion, thus help to preserve global climate changes.



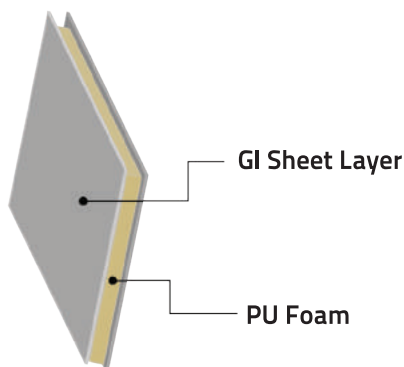
ECOcool
Eco Friendly Product Series
R410A

● Control

All of our R410A Water cooled packaged controller have build in RS485 port (Modbus BMS Control)

● Excellent Thermal Barrier

All the frameworks come with 1 inch double skin PU insulation panel to create a thermal barrier between the internal and external of the unit. The Polyetherane (PU) foam are an excellent heat and sound barrier.



● Excellent filtration system

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



*Sample

● Flexible Drive Package

R410A Water Cooled Package models uses belt driven system. Thus, it is possible to carry out slight adjustment to the external static pressure and air flow should the needs arise.

A5WCP0060A(P) -A5WCP0280A(P)

Model		A5WCP0060A(P)	A5WCP0090A(P)	A5WCP0140A(P)	A5WCP0180A(P)	A5WCP0240A(P)	A5WCP0280A(P)
Nominal Cooling Capacity	BTU/h	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	A	9.72	14.37	21.90	26.81	35.67	45.48
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		TXV					
Power Source		V/Ph/Hz 380 - 415 / 3 / 50					
Control	Air Discharge	DUCTED					
	Operation	WIRED					
Air Flow	m ³ / 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 / in.wg	250 / 1 (0)				250 / 1	
Sound Pressure Level	dBA	70	71	71	73	67	68
Nominal Water Flow Rate	l / s (m ³ /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
Water Pipe Connection	Type	BSP - FEMALE					
	Size	31.75 / 1-1/4" (RIGHT)		38.1 / 1-1/2" (RIGHT)		63.5 / 2-1/2" (RIGHT)	50.80 / 3" (RIGHT)
Condenser		TUBE IN TUBE				SHELL AND TUBE	
Condensate Drain Size	Type	BSP - MALE					
	Size	1-1/4" (Right Side)			31.75 / 1-1/4" (Both Side)		
Unit Dimension	Height	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	1,068 / 42.04	1,410 / 55.51	1,486 / 58.50		1,576 / 62.04	
	Depth	570 / 22.44		765 / 301.34		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

Note:

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	26.7°C DB / 19.4°C WB
Condenser Inlet Water Temperature	30°C
Condenser Outlet Water Temperature	35°C

3. The pipping orientation is viewed from front panel.
4. Sound Pressure Level is measure from 1m infront and below the unit.
5. Unit in the parentheses are applicable for the units with plenum.

A5WCP0320A(P)-A5WCP0570A(P)

Model		A5WCP0320A(P)	A5WCP0360A(P)	A5WCP0400A(P)	A5WCP0520A(P)	A5WCP0570A(P)
Nominal Cooling Capacity	BTU/h	314,000	356,900	400,500	518,900	568,300
	W	92,000	104,600	117,400	152,100	166,600
Nominal Input Power	W	25,780	29,910	33,140	43,620	43,980
Nominal Running Current	A	47.98	62.42	68.40	83.13	82.96
EER	BTU/h/W	12.18	11.93	12.08	11.90	12.92
	W/W	3.57	3.50	3.54	3.49	3.79
Expansion Device		TXV				
Power Source		V/Ph/Hz 380 - 415 / 3 / 50				
Control	Air Discharge	DUCTED				
	Operation	WIRED				
Air Flow	m ³ / h / CFM	18,689 / 11,000	20,048 / 11,800	21,747 / 12,800	24,636 / 14,500	26,335 / 15,500
External Static Pressure With Filter	Pa / in.wg	250 / 1				
Sound Pressure Level	dB(A)	70	68	79	80	77
Nominal Water Flow Rate	l / s (m ³ /h)	5.18 (18.67)	5.66 (20.37)	6.78 (24.40)	8.50 (30.60)	9.31 (33.50)
Water Pressure Drop	kPa	16	23	12	12	34
Water Pipe Connection	Type	BSP - FEMALE				
	Size	63.5 / 2-1/2" (LEFT)				
Condenser	Type	SHELL AND TUBE		TUBE IN TUBE		SHELL AND TUBE
Condensate Drain Size	Type	BSP - MALE				
	Size	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
	Width	mm / in	1,859 / 73.19		2,691 / 105.95	
	Depth	mm / in	1,282 / 50.47		1,583 / 62.32	
Shipping Weight	kg / lb	1,605 / 728	1,889 / 857	1,201 / 2,648	1,269 / 2,797	1,300 / 2,866
Operating Weight	kg / lb	736 / 1,623	866 / 1,909	1,218 / 2,685	1,289 / 2,842	1,314 / 2,897
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

Note:

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

Indoor Temperature	26.7°C DB / 19.4°C WB
Condenser Inlet Water Temperature	30°C
Condenser Outlet Water Temperature	35°C

- The piping orientation is viewed from front panel.
- Sound Pressure Level is measured at open field and 1m from service (front) panel and ground.

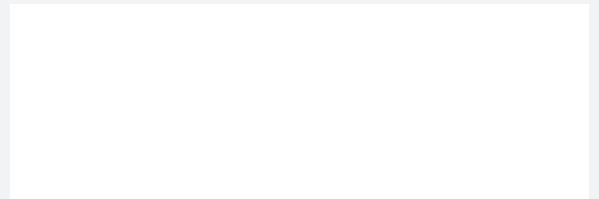


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