

FLOOR STANDING & LARGE FLOOR STANDING

Cool Sentinel



ECOcool
Eco Friendly Product Series **R410A**

ACSON
International
Air Conditioners

A5FS Features



Wide Area Coverage

Acson Floor Standing has wide-angle louvers and auto-swing capability to efficiently distribute cool air right across the whole room or area. Powerful airflow and constant cooling comfort all day long can be experienced by the users. The air throw distance can range up to 25m.

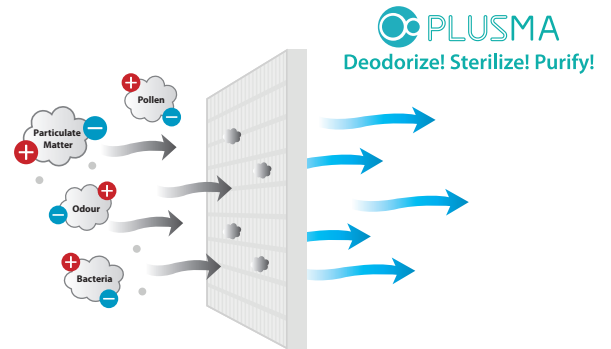
* Applicable for EcoCool Series only.

* Automatic swing is only available in horizontal direction.

Plasma technology

Acson Plasma Technology purifies the air in a room by electrically charging air molecules. Plasma Technology produces massive positive and negative ions to remove particulates, microbes, and odors from the air with the speed of 5ms-1. As a result, healthier air for people to breathe, especially for people suffering from allergies, asthma, and other respiratory-related ailments. Plasma Technology constantly purifying air in the space to keep user feel cool and fresh all the time.

* Applicable for EcoCool Series only.

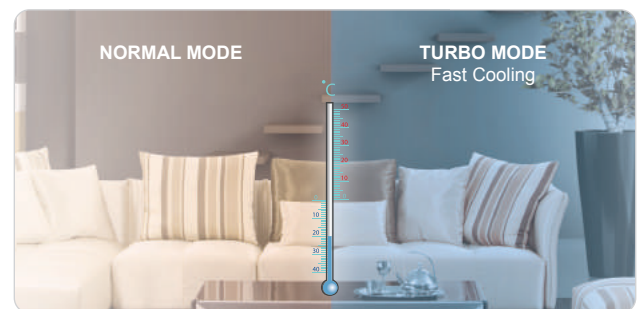


Durable & Easy Accessible Filter

Worry free as our saranet filter can be rinsed by using water. The safety clip feature allows easier removal of the filter during maintenance and acts as a safety feature to prevent the users from touching any electrical and mechanical components.

Switchable Air Flow Mode

Feeling uncomfortable in stuffy or crowded space, just activate the Turbo Air Flow mode to maximize the cooling effect with maximum fan speed. Strong powerful airflow and instant cooling comfort can be achieved in a short time. Switch to low fan mode for gentler airflow when there is less crowd.



Acson NS Splitter

With optional Acson NS Splitter which comes together with network adaptor offering you the smart convenience to control and real time monitoring your air conditioners at your fingertips. With intelligent weekly timer, you can set your air conditioner units to accommodate your daily routine.

Specifications

A5FS A Series (R410A)



General Data										
Model	Indoor Unit			A5FS 30A	A5FS 30A	A5FS 40A	A5FS 40A	A5FS 50A	A5FS 60A	
	Outdoor Unit			A5LC 28C	A5LC 30C	A5LC 35D	A5LC 40D	A5LC 50D	A5LC 61D	
Nominal Capacity		BTU/h		28000	29000	36000	42000	45000	55000	
		W		8210	8490	10550	12310	13180	16120	
Nominal Total Input Power		W		2840	2900	3860	4100	4900	5490	
Nominal Running Current		A		13.0	13.4	17.1	6.58	8.42	9.35	
EER		BTU/h/W		9.86	10.00	9.33	10.24	9.18	10.02	
		W/W		2.89	2.88	2.73	3.00	2.69	2.94	
Power Source		V/Ph/Hz		220 - 240/1/50			380 - 415/3/50			
Refrigerant Type				R410A						
Control		Operation		Front Discharge						
		Louver	Vertical	Automatic						
			Horizontal	Manual						
Operation		Control Panel & Wireless								
Air Flow		High	I/s(CFM)	319 (675)		489 (1035)		552 (1170)		
		Medium	I/s(CFM)	295 (625)		446 (945)		441 (935)	512 (1085)	
		Low	I/s(CFM)	250 (530)		399 (845)		394 (835)	465 (985)	
Sound Pressure Level (H/M/L)		dBA		44 / 42 / 39		49 / 47 / 44		50 / 48 / 46	56 / 55 / 53	
Unit Dimension		Height	mm (in)	1850 (72.83)						
		Width	mm (in)	600 (23.62)						
		Depth	mm (in)	270 (10.63)		350 (13.78)				
Packing Dimension		Height	mm (in)	744 (29.29)						
		Width	mm (in)	1998 (78.66)						
		Depth	mm (in)	418 (16.46)		498 (19.61)				
Unit Weight		kg (lb)		42 (92.59)		45 (99.21)		48 (105.82)	51 (112.44)	
Condensate Drain Size		mm (in)		19.05 (0.75)						
Air Flow		I/s (CFM)		684 (1450)	808 (1712)	1416 (3000)	1487 (3150)	1605 (3400)	2171 (4600)	
Sound Pressure Level		dBA		58	56	58	60	63	65	
Unit Dimension		Height	mm (in)	753 (29.65)		852 (33.54)				
		Width	mm (in)	855 (33.66)		1030 (40.55)				
		Depth	mm (in)	328 (12.91)		400 (15.75)				
Packing Dimension		Height	mm (in)	793 (31.22)		1010 (39.76)				
		Width	mm (in)	990 (38.98)		1180 (46.46)				
		Depth	mm (in)	415 (16.34)		514 (20.24)				
Unit Weight		kg (lb)		57 (125.66)		71 (156.53)	95 (209.44)	98 (216.05)	105 (231.49)	
Pipe Connection		Type		Flare Valve						
		Size	Liquid	mm (in)	9.52 (3/8)					
			Gas	mm (in)	15.88 (5/8)					19.05 (3/4)

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

* Nominal cooling capacity is based on the conditions: Cooling 27°C DB / 19°C WB indoor and 35°C DB.

A5LFS Features

Elegant and White Sleek Design

The stylish white sleek design makes it easier to be placed and blend in with any interior design.

It is equipped with modern look control panel with white LED light for display.

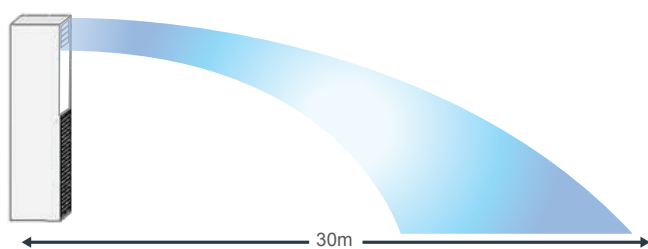


Flexible Air Discharge

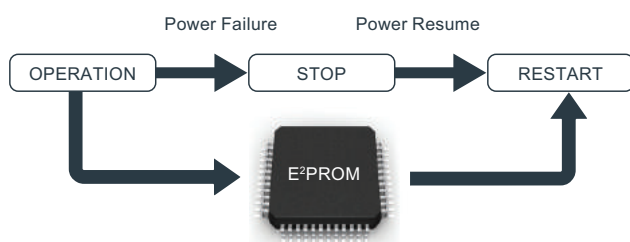
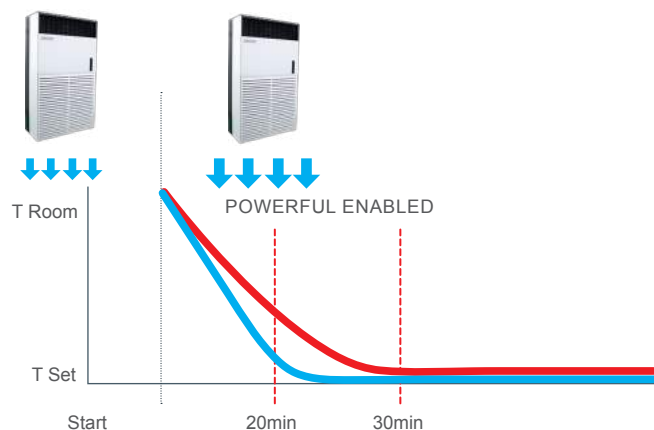
Air flow direction can be easily adjusted, auto horizontal swing and manual setting of vertical airflow louver to accommodate your cooling need.

Powerful Air Flow & Turbo Mode

Acson Large Floor Standing is able to deliver air flow distance up to 30m due to its powerful airflow. With its powerful airflow, the cool air can be distributed evenly to every corner of the room.



Turbo mode will provide maximum cooling continuously for 20 minutes where the fan speed will be set to high fan speed automatically as default. This enables the desired temperature to be achieved faster.



Auto Random Restart

In the event of sudden power failure during operation, the floor standing restarts automatically in 64 different recovery timing patterns (within 180 seconds to 244 seconds) and it will operate based on the previous settings (operating mode, temperature setting and fan speed).

Indoor Air Filtration

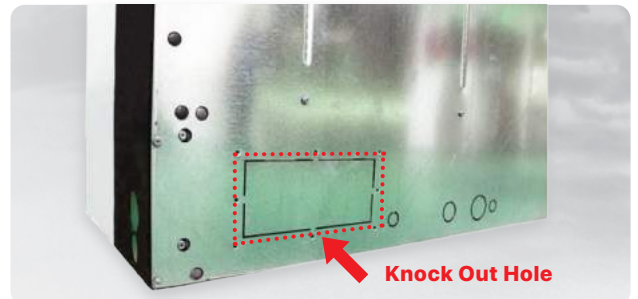
“Washable Saranet Filter will be provided as standard for the removal of airborne dust particles. The unit is designed with easy access to the filter for easier cleaning maintenance. Safety hook mechanism for safety purpose during the removal of filter to prevent to access to electrical and mechanical parts.”



Filter Drier

Filter Drier is installed to filter contaminants and dirt in the system which can avoid blockage to the passage flow of the refrigerant in the expansion valve and cause improper operation to the system.

Fresh air intakes is one of the key components of the HVAC system to preserve a clean and fresh indoor environment in your home. Fresh Air Mixing is available with Acson Large Floor Standing which up to 20% of fresh air air can be introduced to the return air. Knock hole is ready available at the rear unit for the easy ducting connection.



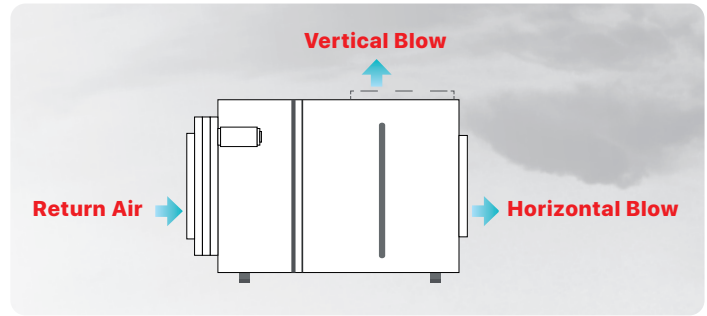
Optional Accessories



A5LFS Condensing Unit

Convertible Air Discharge

The air discharge convertible from vertical to horizontal discharge for versatility installation



High Durability

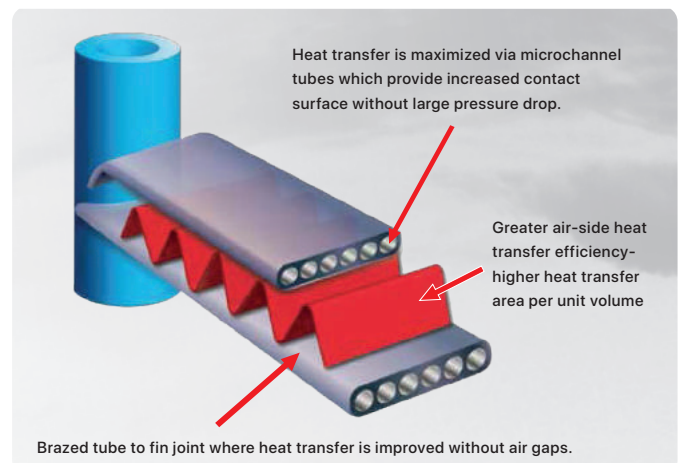
The outdoor unit casing is adopted with zinc coated heavy gauge galvanised steel, with exterior surfaces finished with a weather resistant polyester powder casing, painted with ivory colour to increase the durability. The heat exchanger is coated with Trivalent Chromium Pretreatment (TCP) which have higher resistance to corrosion, rust, rain and etc without affecting the cooling performance compared to bare fin. By performing atmospheric pressure test at 100, from seashore, the appearance of TCP coated coil do not have much changes even after 2 years but the uncoated coils observed to have fin debonding after 1 year.

Remarks: Optional Epoxy Coating is available per request.

Parallel Flow Condenser

“Light Weight and smaller coil are used compared to conventional coil which leads to reduce footprint. Besides that, higher heat transfer area per unit volume compared to conventional heat exchangers (consistent contact between the microchannel tube surface and ambient air).

All coils are tested by Nitrogen holding at 609 psig , highly precise Helium leak test at 235 psig and sea water acetic test (Standard: ASTM G85-A3)”



Pre-Charged Refrigerant and Longer Piping

The Parallel Flow Condenser coils are filled with R410A refrigerant from factory which provides ease of installation and charging work on site. More flexibility and versatility to position the outdoor unit as maximum piping length can extend up to 75m and maximum elevation length up to 30m.

Reliable and Safety Protection

High Efficiency Scroll Compressor

“It offers high cooling capacity, reliability, exceptional energy efficiency and low noise levels. For safety purpose, the compressor is incorporated with internal overload protection.”

Phase Sequential Protection

It is important to protect compressor from phase reversal or phase-missing especially when the unit is about to start up.

Crankcase Heater

It is provided to keep the compressor oil at an elevated temperature to ensure the refrigerant does not migrate and mix with the oil.

Condenser Fan Motor with IP 55 Ingress Protection

The motor is designed with dust proof bearing to ensure the longer reliability operation from dirt and dust.

Specifications

A5LFS A Series (R410A)



Model	Indoor Unit			A5LFS 100A
	Outdoor Unit			A5MC 100H
Nominal Capacity	BTU/h			100,000
	kW			29.3
Nominal Total Input Power	W			9,769
Nominal Running Current	A			18.1
EER	BTU/h/W			10.24
	W/W			3.00
Power Source	V/Ph/Hz			380-415/3/50
Refrigerant Type				R410A
Indoor Unit	Control	Operation		Front Discharge
		Louver	Vertical	Automatic
		Air Discharge	Horizontal	Manual
	Air Flow	High	l/s (CFM)	1,227 (2600)
		Medium	l/s (CFM)	1,038 (2,200)
		Low	l/s (CFM)	850 (1,800)
	Sound Pressure Level (H/M/L)		dBA	67/63/58
	Unit Dimension	Height	mm (in)	1,947 (76.65)
		Width	mm (in)	959 (37.75)
		Depth	mm (in)	500 (19.69)
	Packaged Dimension	Height	mm (in)	2,100 (82.68)
		Width	mm (in)	1000 (39.37)
		Depth	mm (in)	600 (23.62)
	Unit Weight		kg (lb)	136 (299.80)
Condensate Drain Size		mm (in)	25.4 (1.0)	
Outdoor Unit	Air Flow		l/s (CFM)	3,020 (6,400)
	Sound Pressure Level		dBA	65
	Unit Dimension	Height	mm (in)	1,067 (42.00)
		Width	mm (in)	880 (34.65)
		Depth	mm (in)	880 (34.65)
	Packaged Dimension	Height	mm (in)	1262 (49.69)
		Width	mm (in)	1,078(42.44)
		Depth	mm (in)	1,087 (42.80)
	Unit Weight		kg (lb)	143 (315.30)
	Pipe Connection	Type		
		Size	Liquid	mm (in)
	Gas		mm (in)	25.4 (1)
	Max Allowable Length		m	75
	Max Allowable Elevation		m	30

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* Nominal cooling capacity is based on the conditions: Cooling 27°C DB / 19°C WB indoor and 35°C DB.



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