

AVO

WALL MOUNTED



INVERTER AVO SERIES



NON-INVERTER AVO SERIES

AVO

WALL MOUNTED



INVERTER SERIES

Model : A3WMY 10S - A3WMY 25S

Cooling Capacity : 9,500 - 22,500 BTU/h

Power Input : 0.77 - 1.84 kW



NON-INVERTER SERIES

Model : A3WM 10N - A3WM 25N

Cooling Capacity : 8,800 - 22,000 BTU/h

Power Input : 0.8 - 2.1 kW

ACSON AVO WALL MOUNTED air conditioner is a perfect combination of ideal greenery refrigerant and sophisticated design. It is revolutionized air conditioner that incorporated with R32 refrigerant and Acson innovation cooling technology.

With its eco-friendly characteristics, Acson AVO wall mounted air conditioner serves as an extraordinary cooling companion by reducing its footprint to the environment, preserving a green environment for next generation.

R32 REFRIGERANT

Greenery Refrigerant

R32 is a single component refrigerant and used to be one of the components of R410A (binary blend of HFC). It is remarkable for its low environmental impact. The R32 refrigerant has a low Global Warming Potential (GWP), which one-third lower as compared to R410A and consists of zero Ozone Depletion Potential (ODP) at the same time.

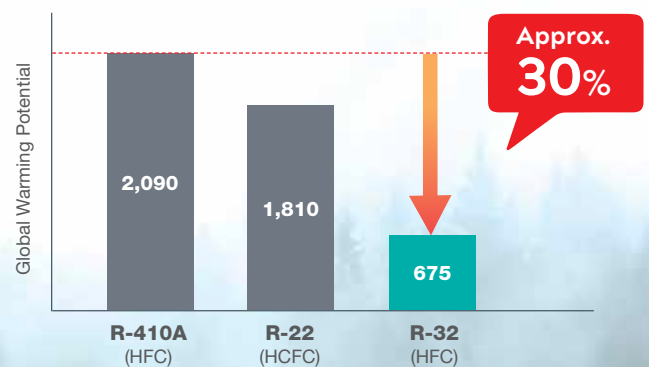
In other words, it does not contribute to ozone depletion and helps to preserve global climate changes.



COMPARISON OF AIR-CONDITIONER

Refrigerant's Impact to Environment

Source :
IPCC Fourth Assessment Report, Comparative of 100 year GWP;
HFC410A, 2,090; HFC32, 675.

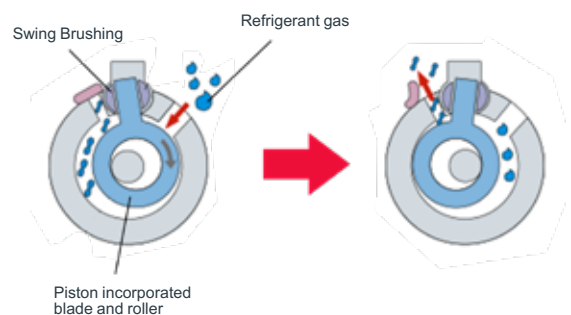
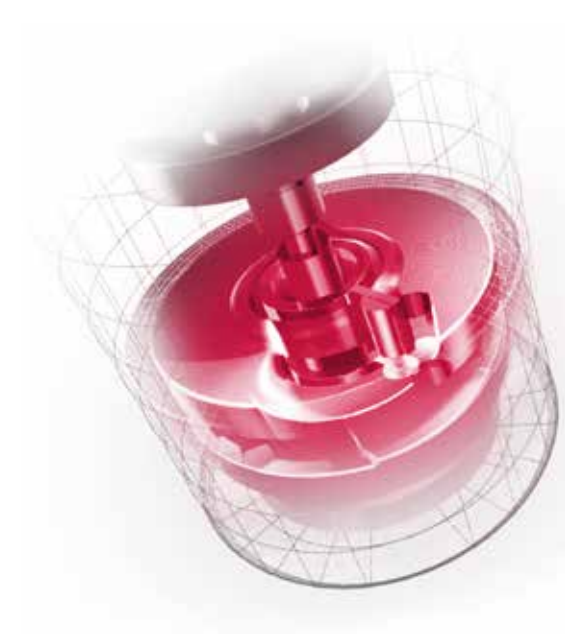


inverter

Inverter Technology

As to provide an exceptional cooling comfort, Acson Inverter varies the compressor speed accordingly as to achieve precise and constant temperature for a higher level of comfort.

Acson Inverter utilizes hermetic swing compressor. Its precise structure and mechanical movement reduce the friction and vibration as compared to conventional rotary compressor.

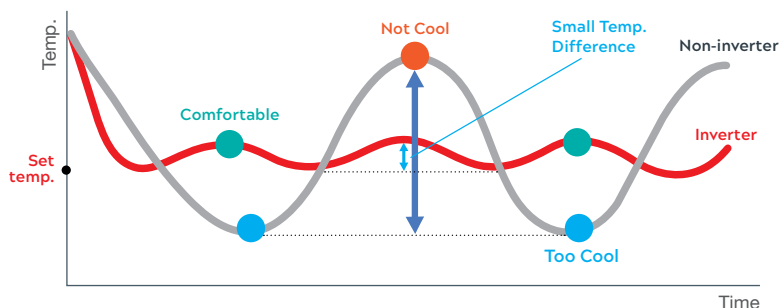


With the advance of inverter technology system, it has reduced leakage of refrigerant and thus maximum capacity is achieved.

Energy Savings

Acson Inverter air-conditioner varies the compressor speed by adjusting the power supply frequency and maintain the temperature without cutting ON and OFF the compressor. Optimum control of compressor operation results in eliminating excessive electricity consumption. It allows to operate at low capacity most of the time, which leads to save energy up to 48%*.

Temperature Fluctuation During Cooling Operation



Model	Non-Inverter	Inverter
Time to achieve set temperature	5.2 Hours	2 Hours
Power consumption for 20 hours per day	25.69 kWh	13.11 kWh
Power consumption for 30 days	770.7 kWh	393.8 kWh
Electricity rate	RM 0.818	
Electricity bill per month (RM)	243.5412	124.2828
Monthly saving in %	48.97	

Room Size: 20.17m²
 Indoor Initial Temperature: 35°C
 Set Temperature: 25°C
 Outdoor Temperature: 33°C
 Fan Speed: High

*Amount of energy saving is subjected to individual operating and /or environment conditions

Powerful

Acson Inverter air-conditioner operates at maximum capacity once it started. The burst of increased power enable it to reach the set temperature and ideal cooling comfort more quickly as compared with non-inverter air-conditioner.

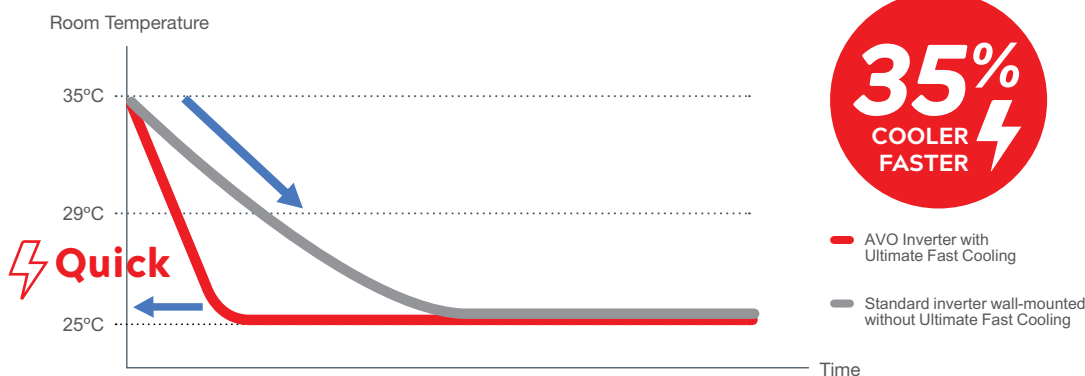
Comfortable

Inverter system adjusts the capacity smartly according to the air conditioning load. It minimize the difference between the set temperature and room temperature. Temperature remain constant and thus providing highest comfort levels for you, which is ideal for comfy bedroom.

Ultimate Fast Cooling



Incorporated with sophisticated algorithm, the compressor starts up powerful cooling cycle and speed up to maximum frequency when user turn on the unit. The strong and powerful airflow triggered out Ultimate Fast Cooling and achieve the desired temperature 35% faster in time compared to usual inverter unit.



*Comparison between AVO Inverter with Standard Inverter wall mounted air-conditioner

- Indoor starting condition: 27°C
- Outdoor condition: 35°C/24°C
- Remote setting temperature: 22°C, High fan

- The time to reach the setting temperature was measured.
- The effect vary to the conditions of installation and usage.

Features

Advanced Fan Motor



Incorporated with Silicon Control Rectifier (SCR) fan motor, Acson air-conditioner provides a stepless change in speed, resulting in smoother air throw and quieter fan speed transition.

Long & Wide Air-flow



Long airflow distributes the cool air gently and evenly across the room. The reach of comforting air is up to 6 metres away from the unit.

Turbo Mode



Acson air-conditioner which incorporated with TURBO mode enables the compressor fan to operate at its maximum fan speed for 20 minutes and enables the desired temperature to be achieved faster in 33%.

Time Schedule



With timer feature, user can now schedule to ON/ OFF the air-conditioner within a 24-hour period according to their preference, by using the wireless remote controller.







Features

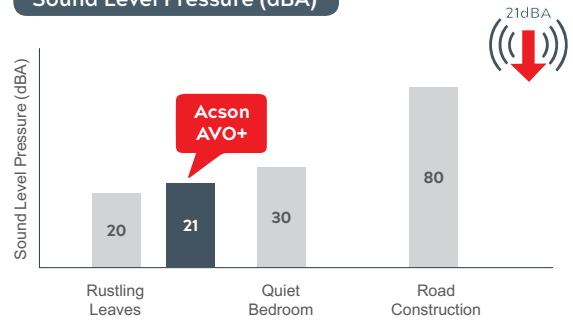
Silent Atmosphere

(Quiet Mode)



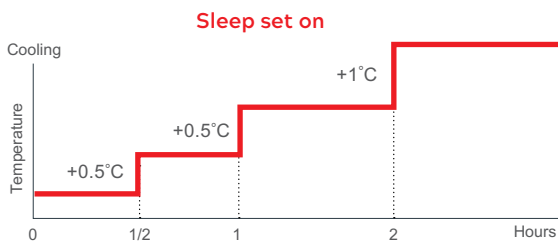
QUIET MODE lowers the noise level by changing the frequency and fan speed of the unit. When serenity and tranquility state is desired, it will bring down the sound level to an unobstructive 21dBA. This function is perfectly convenient during the night.

Sound Level Pressure (dBA)



*Sound level pressure are measured according to JISC 9612 Standard

Cooling Mode



Comfort at Your Fingertip

(Sleep Mode)



Turn on the SLEEP function before you go to bed for intelligent control to adjust the temperature gradually. This will ensure a comfortable and mellow sleeping

Double Protection

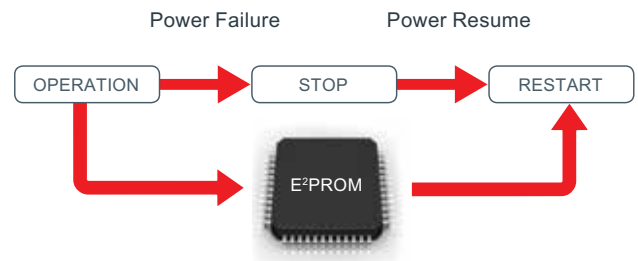


Automatic Restart

In the event of a sudden power failure, the unit can be automatically restarted once the power supply is back to normal and keeping the last setting condition.

Self Diagnosis System

With a series of sensors and intelligent control board, errors will be detected and blinking LEDs to show the error which rarely happen.



Peace of Mind Warranty Service



Acson products are designed with durable & reliable quality. Our units are come with 5 years warranty for compressor and 1 year warranty for general parts.

*1st year free labour and compressor.

*2nd - 5th year free compressor only.

Specifications

A3WM Non-Inverter AVO Series (R32)



Horse Power (HP)				1.0 HP		1.5 HP	2.0 HP	2.5 HP	
Model			Indoor	A3WM10N	A3WM10N	A3WM15N	A3WM20N	A3WM25N	
			Outdoor	A3LC10FN	A3LC10F	A3LC15F	A3LC20C	A3LC25C	
Nominal Cooling Capacity			BTU/h	8,800	9,500	12,000	18,000	22,000	
			kW	2.58	2.78	3.52	5.28	6.45	
Nominal Total Input Power			W	835	900	1,170	1,835	2,215	
Nominal Running Current			A	3.68	4.00	5.41	8.12	9.76	
EER			BTU/h/W	10.56	10.56	10.26	9.81	9.93	
			W/W	3.09	3.09	3.01	2.87	2.91	
Power Source			V/Ph/Hz	220 - 240V / 1 / 50					
Refrigerant Control				CAPILLARY TUBE					
Indoor Unit	Control	Operation		LCD REMOTE CONTROL					
		Air Discharge		AUTOMATIC LOUVER (UP & DOWN)					
	Air Flow	Turbo	l/s (CFM)	169 (358)		176 (372)	303 (641)		
		High	l/s (CFM)	161 (342)		168 (355)	290 (614)		
		Medium	l/s (CFM)	133 (282)		140 (298)	253 (537)		
		Low	l/s (CFM)	106 (225)		114 (242)	224 (474)		
		Quiet	l/s (CFM)	99 (209)		106 (225)	197 (418)		
	Sound Pressure Level (SPL)		dBA	39/37/33/27/25		40/39/35/29/28	48/46/43/39/37		
	Unit Dimension Packaging Dimension	Height	mm (in)	288 (11.34)			310 (12.20)		
		Width	mm (in)	800 (31.50)			1,065 (41.93)		
		Depth	mm (in)	204 (8.03)			224 (8.80)		
		Height	mm (in)	344 (13.54)			386 (15.20)		
		Width	mm (in)	874 (34.40)			1,136 (44.72)		
		Depth	mm (in)	274 (10.79)			314 (12.36)		
	Unit Weight Condensate Drain Size		kg (lb)	9 (19.84)			14 (30.86)		
			mm (in)	19.05 (0.75)					
Outdoor Unit	Air Flow		l/s (CFM)	304 (644)	438 (927)	390 (827)	675 (1,430)	750 (1,590)	
	Sound Pressure Level (SPL)		dBA	46		48	51	52	
	Unit Dimension Packaging Dimension	Height	mm (in)	485 (19.10)	550 (21.65)		651 (25.63)		
		Width	mm (in)	566 (22.29)	658 (26.00)		855 (33.66)		
		Depth	mm (in)	256 (10.08)	273 (10.75)		328 (12.91)		
		Height	mm (in)	532 (20.94)	580 (22.83)		693 (27.28)		
		Width	mm (in)	668 (26.30)	775 (30.51)		990 (38.98)		
		Depth	mm (in)	366 (14.40)	355 (13.98)		415 (16.34)		
	Unit Weight		kg (lb)	21 (46.30)	28 (61.73)		41 (90.39)		
	Fin Spec			BARE ALUMINIUM FIN OR HYDROPHILIC GOLD FIN				PFC	
	Pipe Connection	Type		FLARE VALVE					
		Size	Liquid	mm (in)	6.35 (1/4)				
			Gas	mm (in)	9.52 (3/8)			12.70 (1/2)	
	Maximum Piping Length			m	20	25		30	
	Maximum Piping Height			m	12	15			
Refrigerant Type				R32					

1. All specifications are subject to change by the manufacturer without prior notice.

2. Nominal Cooling Capacity is based in the conditions: Cooling 27°C DB / 19°C WB indoor and 35°C DB / 24°C WB outdoor.

3. Sound Pressure Level is according to JIS C 9612 standard. Position of the measurement point is 1m in front and 0.8m below the unit.

4. Units are tested & complied to international standards such as ISO 5151.

SIRIM Certified



Specifications

A3WMY Inverter AVO Series (R32)



Horse Power (HP)				1.0 HP		1.5 HP		2.0 HP		2.5 HP		
Model			Indoor		A3WMY 10S		A3WMY 15S		A3WMY 20S		A3WMY 25S	
			Outdoor		A3LCY 10F		A3LCY 15F		A3LCY 20C		A3LCY 25C	
Nominal Cooling Capacity (Min-Max)			BTU/h		9,500 (4,400-10,200)		12,100 (4,400-13,000)		19,000 (4,700-21,200)		22,500 (5,800-23,500)	
			kW		2.78 (1.30-3.00)		3.55 (1.30-3.80)		5.57 (1.40-6.21)		6.60 (1.70-6.89)	
Nominal Total Input Power (Min-Max)			W		765 (300-1,130)		1,060 (270-1,300)		1,475 (290-1,850)		1,840 (300-2,000)	
Nominal Running Current (Min-Max)			A		3.44 (1.77-5.02)		4.72 (1.68-5.81)		6.54 (1.45-8.17)		8.16 (1.91-8.88)	
EER			BTU/ hr/W		12.42		11.42		12.88		12.23	
			W/W		3.64		3.35		3.78		3.58	
Power Source			V/Ph/Hz		220 - 240V / 1 / 50							
Refrigerant Control					OUTDOOR EXV							
Indoor Unit	Control		Operation		LCD REMOTE CONTROL							
			Air Discharge		AUTOMATIC LOUVER (UP & DOWN)							
	Air Flow		Turbo	l/s (CFM)	178 (378)		185 (392)		273 (578)		332 (703)	
			High	l/s (CFM)	163 (345)		169 (358)		250 (529)		309 (654)	
			Medium	l/s (CFM)	128 (272)		133 (282)		222 (471)		276 (585)	
			Low	l/s (CFM)	101 (215)		109 (232)		197 (418)		239 (507)	
			Quiet	l/s (CFM)	78 (165)		78 (165)		177 (374)		206 (437)	
	Sound Pressure Level (SPL)		dBA		41/40/34/29/21		42/41/34/30/22		44/40/38/35/32		46/43/41/37/33	
	Unit Dimension		Height	mm (in)	288 (11.34)			310 (12.20)				
			Width	mm (in)	859 (33.82)			1,124 (44.25)				
			Depth	mm (in)	209 (8.23)			237 (9.33)				
	Packaging Dimension		Height	mm (in)	367 (14.45)			400 (15.75)				
			Width	mm (in)	970 (38.19)			1,252 (49.29)				
			Depth	mm (in)	303 (11.93)			333 (13.11)				
	Unit Weight			kg (lb)		9 (19.84)			14 (30.86)			
	Condensate Drain Size			mm (in)		19.05 (0.75)						
Outdoor Unit	Air Flow		l/s (CFM)		425 (900)		345 (730)		798 (1,690)		848 (1,796)	
	Sound Pressure Level (SPL)		dBA		45		46		51			
	Unit Dimension Packaging Dimension		Height	mm (in)	550 (21.65)			651 (25.63)		753 (29.65)		
			Width	mm (in)	658 (25.91)			855 (33.66)				
			Depth	mm (in)	273 (10.75)			328 (12.91)				
			Height	mm (in)	580 (22.83)			693 (27.28)		793 (31.22)		
			Width	mm (in)	775 (30.51)			990 (38.98)				
			Depth	mm (in)	355 (13.98)			415 (16.34)				
	Unit Weight			kg (lb)		24 (52.91)		26 (57.32)		41 (90.39)		44 (97.00)
	Fin Spec				BARE ALUMINIUM FIN OR HYDROPHILIC GOLD FIN							
	Pipe Connection		Type		FLARE VALVE							
					6.35 (1/4)							
			Size	Liquid	mm (in)	9.52 (3/8)				12.70 (1/2)		
	Gas	mm (in)		20				30				
Maximum Piping Length			m		15			20				
Maximum Piping Height			m		R32							
Refrigerant Type					R32							

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3. Sound Pressure Level is according to JIS C 9612 standard. Position of the measurement point is 1m in front and 0.8m below the unit.

4. Units are tested & complied to international standards such as ISO 5151.

SIRIM Certified





ACSON MALAYSIA SALES & SERVICE SDN.BHD. (129688-D)

a member of DAIKIN group

Lot 4, Lorong 19/1A, Seksyen 19, 46300 Petaling Jaya,
Selangor Darul Ehsan, MALAYSIA.

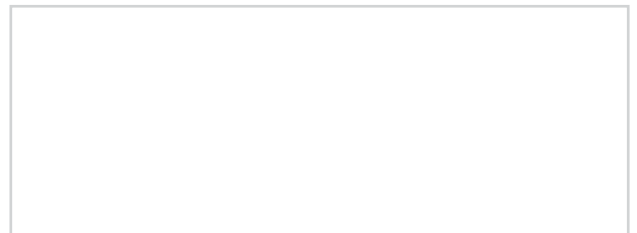
Tel : +603 7964 8200 Sales Fax : +603 7956 9909

Service Fax : +603 7956 9907 Acson Careline : 1300 22 3344

Penang	: +604-5377 176	Pahang	: +609-5178 696
Perak	: +605-3129 828	Kelantan	: +609-7405 233
Melaka	: +606-2926 196	Sarawak	: +6082-344 128
Johor	: +607-3551 599	Sabah	: +6088-420 205

www.acson.com.my

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