

nocria®

3rd year of record achievements.

Automatic filter cleaning air conditioner

New



AWYZ14LB



Hi-COP:4.44(W/W)

Ⓢ 4.20kW / 14,300BTU/h

Ⓜ 6.00kW / 20,500BTU/h

AWYZ18LB



Hi-COP:4.11(W/W)

Ⓢ 5.20kW / 17,700BTU/h

Ⓜ 6.70kW / 22,900BTU/h

AWYZ24LB



Hi-COP:—(W/W)

Ⓢ 7.10kW / —BTU/h

Ⓜ —kW / —BTU/h



Our unique technology that achieved top energy efficiency in the industry

WORLD FIRST!

a Energy saving by automatic filter cleaning function

This function allows an energy saving of more than 25% a year and maintains a smooth air flow by preventing the filters from being clogged with dust.

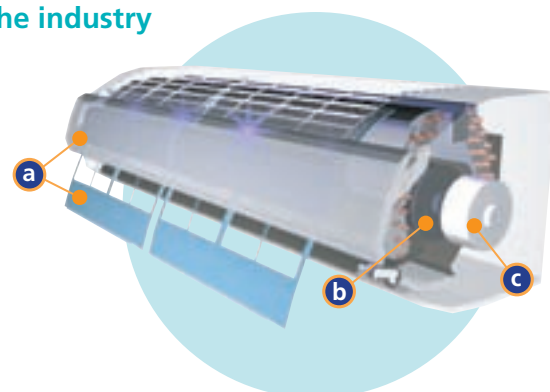
b Computer-designed fan provides a larger air flow than conventional models

New air trunk, which provides a smooth air flow, and gap fan motor increase the maximum air flow by 10% over that of conventional models.

CAE:Computer aided engineering



CAE analysis



WORLD FIRST!

c Axial gap fan motor enables nonconventional high power and high efficiency.

Axial gap method

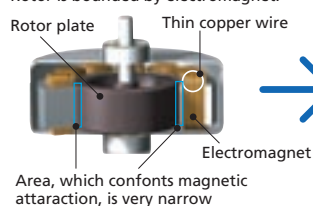
Rotor plates are installed above and below electromagnets.

Features (Compared to conventional models)

Compact size with 1.5 more power output
Self-driven method increases rotating efficiency by 10%.
Our electromagnetic field simulation technology enables low vibration and low noise.

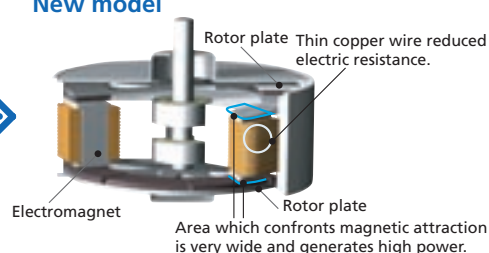
Conventional motor

Rotor is bounded by electromagnet.



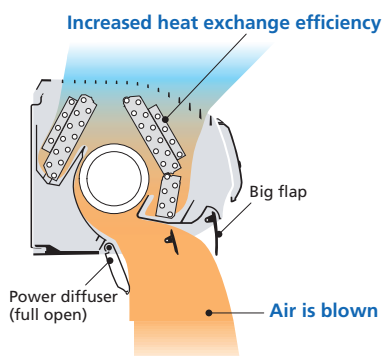
Area, which confronts magnetic attraction, is very narrow

New model



Area which confronts magnetic attraction is very wide and generates high power.

"Strong vertical air flow" provides powerful floor level heating.



Increased heat exchange efficiency

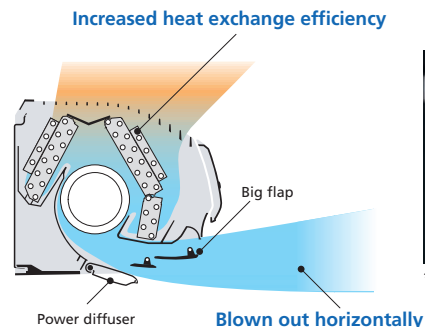
No.1
Heating capacity

Comfortable heating area
Approximately **2.5 times***
(Our company comparison)

*Compared to our conventional Model ASY13PSCCW.

Air is blown directly downward

"Healthy horizontal air flow" does not blow cool air directly at the occupants in the room.



Increased heat exchange efficiency

Cooling range
Approximately **1.7 times***
(Our company comparison)

*Compared to our conventional Model ASY13PSCCW.

Blown out horizontally

WORLD FIRST! Automatic filter clean

▶ Entire filter is cleaned automatically in approximately 2 minutes.

Since the filter is cleaned automatically, energy saving capability is displayed without regard to the load on the air conditioner.

▶ Energy saving Rank A cleared with a margin to spare.

If the energy saving effect is maintained, filter cleaning once every two weeks is effective.

▶ Three exhaustive sterilizing and deodorizing countermeasures keep the air in the room clean.

If the energy saving effect is maintained, filter cleaning once every two weeks is effective.

Sterilizing countermeasure

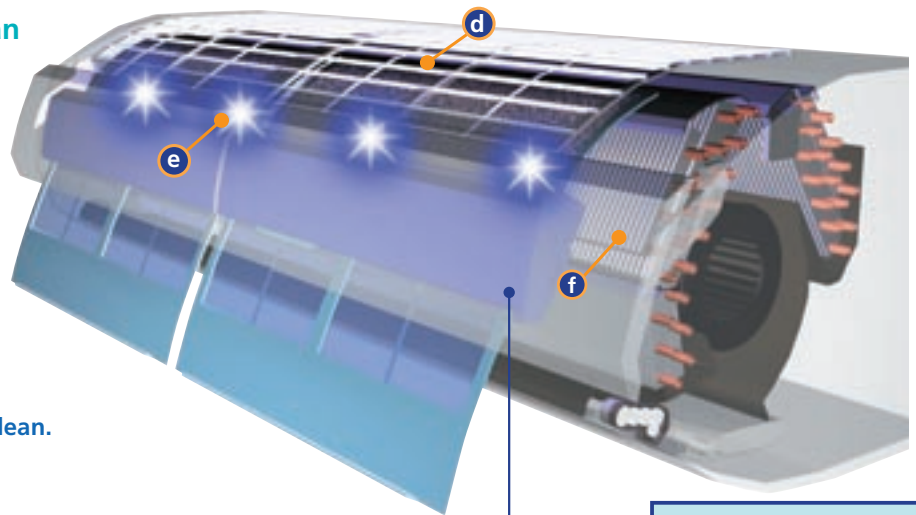
d Dirt and dust are thoroughly sterilized by titan apatite filter*

* Displays double the effect of a conventional optical medium and retains its property for a long time to suck in and remove approximately 99.99% of cigarette odors and bacteria, etc.

e WORLD FIRST! Drives away bacteria and refreshes the air by UV (ultraviolet rays) illumination.

f The heat exchanger also uses titan apatite.

Titan apatite attracts bacteria and mold spores that passed through the filter and suppresses the growth of bacteria.



Antibacterial dust box

Removes dirt and dust by double brushes. Dust collection is approximately twice that in the past. (our company comparison)

Maintenance: Only throwing into a trash bin once every two years

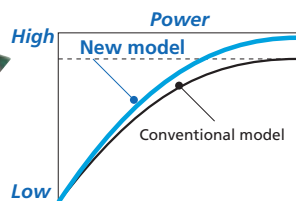
V-PAM inverter increases the maximum output of the compressor significantly and enables high power and high efficiency.

g V-PAM

V-PAM technology makes the compressor more powerful.

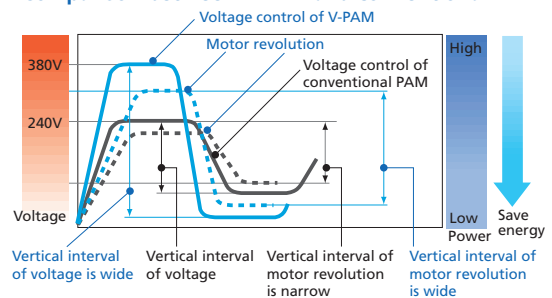
h

More compact than conventional models.



Output increased to greater than that of conventional model

Comparison between V-PAM and conventional PAM.

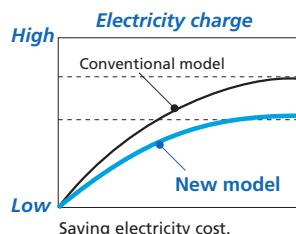
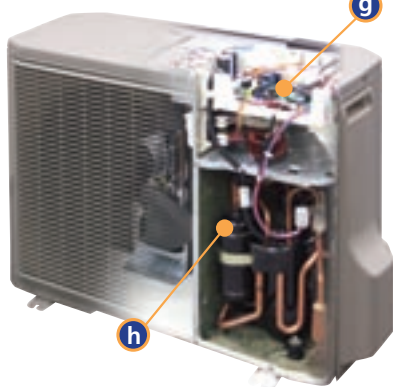


Conventional PAM

Control range between energy saving and high power is small because vertical interval of voltage and motor revolution is narrow.

V-PAM

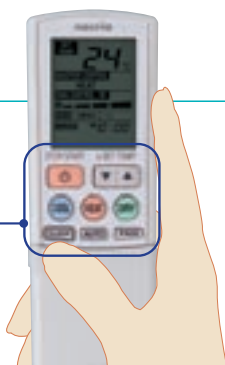
V-PAM achieves high power by increasing the voltage up to 380V and making the motor rotate faster, and also saves energy in the stable state by making the motor rotate slower than that of conventional models by lowering the voltage.



Saving electricity cost.

Remote controller

Frequently used parts are clearly visible at the center. The operation mode can be directly selected.



Specifications

		CEILING WALL TYPE		
Model No.	Indoor Unit	AWYZ14LB	AWYZ18LB	AWYZ24LB
Item	Outdoor Unit	AOYZ14LB	AOYZ18LB	AOYZ24LB
Rank		A / A	A / A	A / A
Capacity	Cooling	kW 4.20(0.9-5.3)	5.20(0.9-5.9)	7.10
	Heating	6.00(0.9-9.1)	6.70(0.9-9.7)	*
	Cooling	14,300	17,700	*
	Heating	20,500	22,900	*
Moisture Removal		l/h 2.1	2.8	*
Room Air Circulation (High)	Inner	850	850	*
	Outer	m ³ /h *	*	*
Input Power		V/ø/Hz 230/1/50	230/1/50	*
Running Current	Cooling	A 4.50	6.90	*
	Heating	5.90	7.20	*
Power Consumption	Cooling	kW 1.02	1.58	*
	Heating	1.35	1.63	*
EER	Cooling	kW/kW 4.12	3.29	*
COP	Heating	4.44	4.11	*
Dimensions H x W x D	mm	250x890x298	250x890x298	250x890x298
	kg(lbs)	13.5(30)	13.5(30)	*
Net Weight	mm	578x790x300	578x790x300	*
	kg(lbs)	39(86)	39(86)	*
Connection Method		Flare	Flare	Flare
Connection Pipe Size (Small/Large)		mm 6.35/12.70	6.35/12.70	*
Max Pipe Length /Height Difference	m	20(15)	20(15)	*
		15	15	*
Permissible Range of Outdoor Temp.	Cooling	°C -10~43	-10~43	-10~43
	Heating	-15~24	-15~24	-15~24
Refrigerant		R410A	R410A	R410A