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THE INTELLIGENT CHOICE IN COMFORT












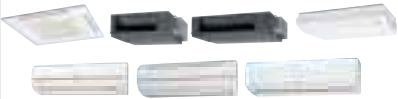


CEILING & WALL MOUNTED TYPE AIR CONDITIONERS LINEUP

Capacity (BTU/h)	CEILING WALL TYPE (P4~5,10~11)				WALL MOUNTED TYPE (P6~9,10~11)	
						
	INVERTER		INVERTER	INVERTER	INVERTER	
7,000			ASHA07LC 			ASH7FB/7UB
9,000			ASHA09LC 	ASHB09LD 		ASH9FB/9UC
12,000			ASHA12LC 	ASHB12LD 		ASH12FB/12UC
14,000	AWHZ14LB 	AWG14UB	ASHA14LC 			
18,000	AWHZ18LB 	AWG18FA/18UA  AWG18FB/18UB	ASHA18LC	 ASHB18LD		
24,000	 AWHZ24LB 	AWG24FA/24UA  AWG24FB/24UB			 ASHB24LD  ASHA24LC 	
30,000		AWG30FB/30UB			ASHA30LC	

Capacity (BTU/h)	DUCT TYPE (P15,18~21)					COMPACT CASSETTE / CASSETTE		
								
		INVERTER	INVERTER	INVERTER		INVERTER	INVERTER	
7,000	ARG7F/7U							
9,000	ARG9F/9U							
12,000	ARG12F/12U	 ARHA12L  ARH12L				 AUHA12L 	AUG12F/12U	AUH12L
14,000	ARG14F/14U	 ARHA14L  ARH14L				 AUHA14L 	AUG14F/14U	AUH14L
18,000 ~19,000	ARG18F/18U	 ARHA18L  ARH18L				 AUHA18L 	AUG18F/18U	AUH18L
20,000								
24,000 ~25,000			ARG25F/25U	 ARHA24L  ARH24L		 AUHA24L 		
30,000 ~32,000			ARG30F/30U	ARH30L				
36,000			ARG36F/36U ARG36U(1)	 ARHA36L  ARH36L				
45,000			ARG45F/45U	 ARHA45L  ARH45L	ARH45LH			
54,000					ARH54L			
60,000				ARG60F/60U				
90,000						ARG90E/90T		

		FLOOR TYPE (P9)
		
		INVERTER
ASH9UB Rank A		New AGHV09LA Rank A
ASH12UB Rank A		New AGHV12LA Rank A
ASH14FB/14UB		New AGHV14LA Rank A
	ASG18FA/18UA Rank A ASG18FB/18UB	
	ASG24FB/24UB	
	ASG30FB/30UB	

	WINDOW TYPE (P30)		
			
Capacity (BTU/h)			
7,000	AKH7F		
9,000	AKH9F/9U		
12,000		AMH12U	
13,000		AMH13F	
16,000			AFH16F/16U

TYPE (P12~13,22~23)		CEILING/UNIVERSAL TYPE (P14,24~25)		MULTI -TYPE SYSTEMS (P16~17,26~27)					
		FLOOR/CEILING UNIVERSAL TYPE 	CEILING TYPE 	Inner:AS+AS 	Inner:AU+AU 	Inner:AS+AU 			
INVERTER		INVERTER	INVERTER				INVERTER	INVERTER	INVERTER
		ABG14F/14U							
		ABG18F/18U	New ABHA18L Rank A ABH18L					AOH18LM2	New ACHA18LAT3 Rank A
				AOH19F AOH19U					
				AOH20FSS AOH20USS AOH20F(3) Rank A		AOH20FSU AOH20USU			
AUG25F/25U AUG25F(3)	AUH24L	ABG24F/24U	New ABHA24L Rank A ABH24L	AOH24FSS AOH24USS	AOH24FUU AOH24UUU	AOH24FSU AOH24USU	AOH24LM2 Rank A	New ACHA24LAT3 Rank A	
AUG30F/30U	AUH30L			ABG30F/30U	ABH30L				AOH30LM4 Rank A
AUG36F/36U	New AUHA36L Rank A AUH36L			ABG36F/36U	New ABHA36L Rank A ABH36L				
AUG45F/45U	New AUHA45L Rank A AUH45L			ABG45F/45U	New ABHA45L Rank A ABH45L				
AUG54F/54U	AUH54L			ABG54F/54U					

Notice for specifications

I.U.=Indoor Unit O.U.=Outdoor Unit Qu=Quiet * =Not decided yet

- Specifications and design subject to change without notice for further improvement. Please check with your dealer.
- Cooling/Heating capacities are based on the following conditions.

Cooling
Indoor temp. : 27°C DB/19°C WB
Outdoor temp. : 35°C DB/24°C WB

Heating
Indoor temp. : 20°C DB/15°C WB
Outdoor temp. : 7°C DB/6°C WB

For Duct
Air volume (1) models are given without external static pressure.
Air volume (2) models are given when external static pressure is 30Pa.
Air volume (3) models are given when external static pressure is 100Pa.
Air volume (4) models are given when external static pressure is 200Pa.

- (1) ARHA12L/14L/18L, ARG7F/7U/9F/9U/12F/12U/14F/14U/18F/18U
- (2) ARHA24L/36L/45L, ARH30L
- (3) ARH45LH/54L, ARG25F/25U/30F/30U/36F/36U/1(1)45F/45U/60F/60U
- (4) ARG90E/90T



4th year of record achievements.
Automatic filter cleaning air conditioner



AWHZ14LB
 Ⓞ 4.20kW/14,300BTU/h
 Ⓜ 6.00kW/20,500BTU/h



AWHZ18LB
 Ⓞ 5.20kW/17,700BTU/h
 Ⓜ 6.70kW/22,900BTU/h



AWHZ24LB
 Ⓞ 7.10kW/24,200BTU/h
 Ⓜ 8.10kW/27,600BTU/h



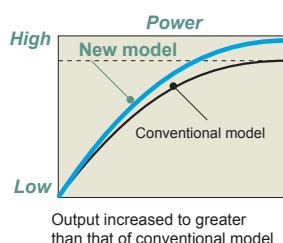
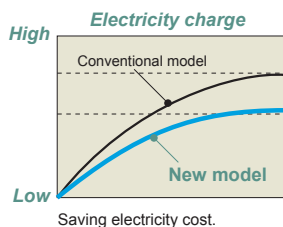
V-PAM inverter increases the maximum output of the compressor significantly and enables high power and high efficiency.



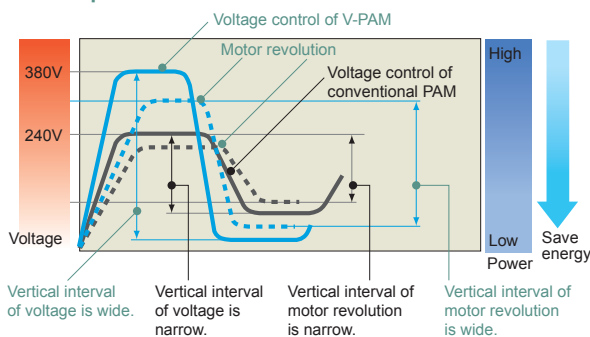
V-PAM technology makes the compressor more powerful.



More compact than conventional models.



Comparison between V-PAM and conventional PAM.



Conventional PAM

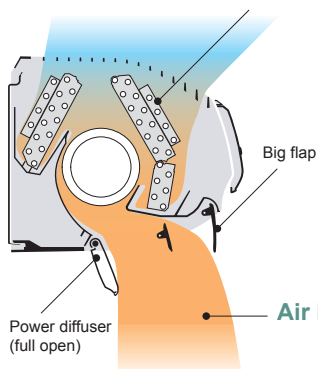
Control range between energy saving and high power is small because vertical interval of voltage and motor revolution is narrow.

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.

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

Increased heat exchange efficiency



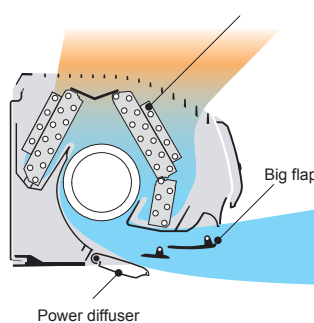
No. 1
Heating capacity

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

*Compared to our conventional Model ASH13PSCCW.

"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 ASH13PSCCW.



Automatic filter cleaner

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.

Two exhaustive bacteria eliminating 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.

Our unique technology that achieved top energy efficiency in the industry



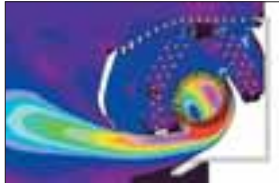
c Energy saving by automatic filter cleaning function

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.

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

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

CAE: Computer aided engineering



CAE analysis



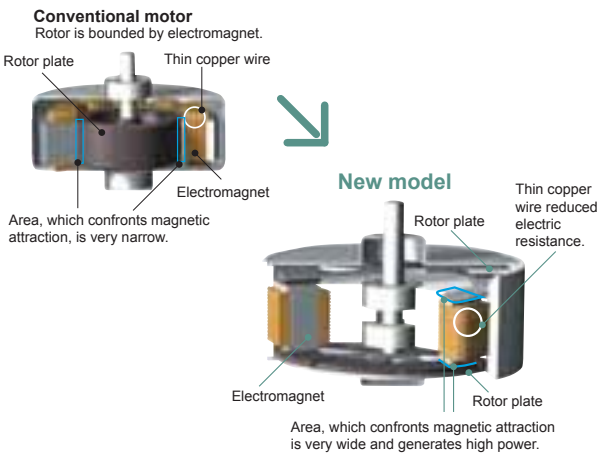
e Axial gap fan motor enables nonconventional high power and high efficiency.

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.



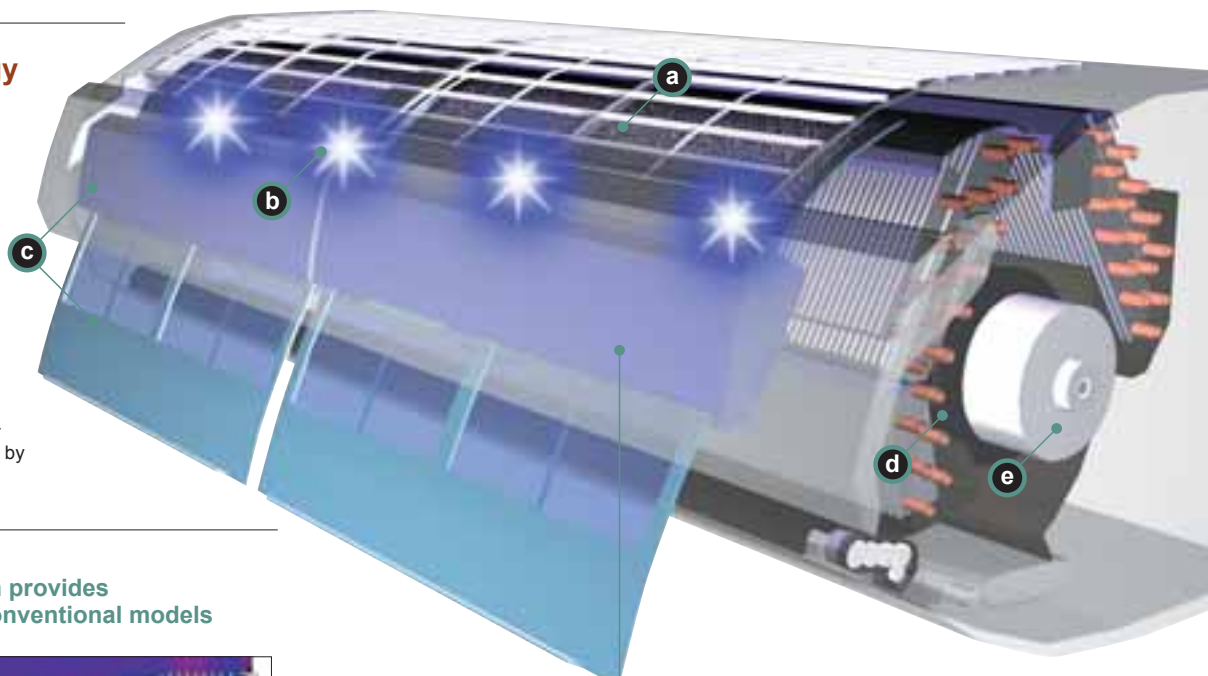
Bacteria eliminating countermeasure

a Dirt and dust are bacteria-eliminated 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.



b Drives away bacteria and refreshes the air by UV (ultraviolet rays) illumination.



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

*1: Announced September 9, 2002. In room air conditioner for the home. (Our company's investigation)

*2: Announced September 26, 2002. Two-wave UV mounted in room air conditioner for the home. (Our company's investigation)

*3: Announced December 13, 2004. As fan motor for air conditioner. (Our company's investigation)



SPECIFICATIONS		Model No.			
Item		Indoor Unit	AWHZ14LB	AWHZ18LB	AWHZ24LB
		Outdoor Unit	AOHZ14LB	AOHZ18LB	AOHZ24LB
Rank (Cooling/Heating)			A/A	A/A	A/A
Capacity	Cooling	kW	4.20 (0.9~5.3)	5.20 (0.9~5.9)	7.10 (2.0~8.0)
			6.00 (0.9~9.1)	6.70 (0.9~9.7)	8.10 (2.0~8.0)
	Heating	BTU/h	14,300	17,700	24,200
			20,500	22,900	27,600
Moisture Removal		l/h	2.1	2.8	3.0
Room Air Circulation (High)	Inner	m ³ /h	850	850	1,050
	Outer		1,910	1,910	2,500
Input Power		V/ø/Hz	230/1/50	230/1/50	230/1/50
Running Current	Cooling	A	4.5	6.9	9.7
	Heating		5.9	7.2	9.8
Power Consumption	Cooling	kW	1.02	1.58	2.21
	Heating		1.35	1.63	2.24
EER	Cooling	kW/kW	4.12	3.29	3.21
COP	Heating		4.44	4.11	3.62
Dimensions H x W x D	Inner	mm	250x890x298	250x890x298	250x890x298
		kg(lbs)	13.5(30)	13.5(30)	13.5(30)
	Outer	mm	578x790x300	578x790x300	830x900x330
		kg(lbs)	39(86)	39(86)	62(137)
Connection Method			Flare	Flare	Flare
Connection Pipe Size (Smallø/Largeø)		mm	6.35/12.70	6.35/12.70	6.35/12.70
Max Pipe Length /Height Difference	m		20(15)	20(15)	30(15)
			15	15	20
Permissible Range of Outdoor Temp.	Cooling	°C	-10~43	-10~43	-10~43
	Heating		-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A

INVERTER WALL MOUNTED TYPE

PLASMA AIR CONDITIONER



(ASHB09/12/18LD)

(ASHB24LD)



ASHB09/12/18LD

ASHB24LD

For ASHB09/12LD

For ASHB18/24LD



ASHB09LD

- 2.60kW/8,900BTU/h
- 3.60kW/12,300BTU/h



ASHB12LD

- 3.50kW/11,900BTU/h
- 4.80kW/16,400BTU/h



ASHB18LD

- 5.20kW/17,700BTU/h
- 6.25kW/21,300BTU/h



ASHB24LD

- 7.10kW/24,200BTU/h
- 8.10kW/27,600BTU/h

*The following contents apply to ASHB09/12/18LD models.

Original plasma air cleaning unit effectively cleans the air in the room.

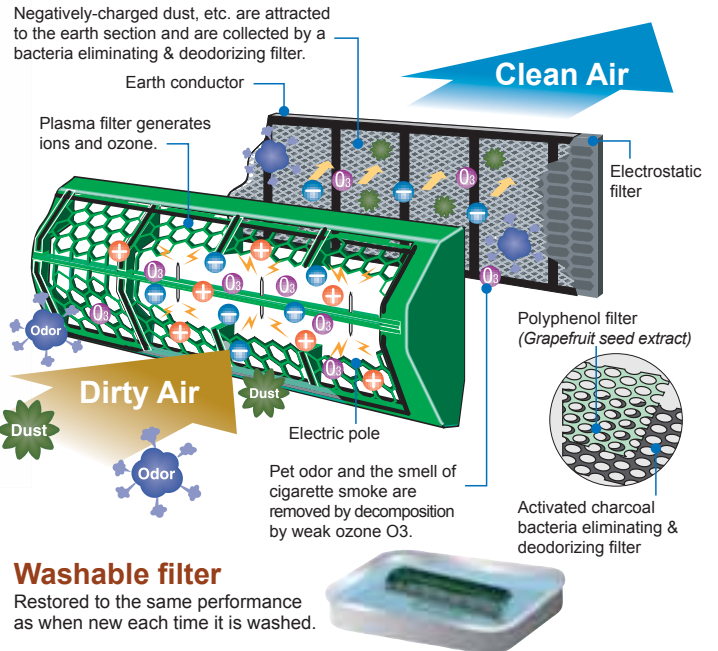


Dirty Air

Clean Air

Plasma unit

Mounts a plasma air cleaning unit. Minute dust particles are collected by an electrostatic filter and odor is suppressed by decomposition of foul odors by very weak ions. Since a filter with a lower ventilation resistance than in the past is used, high dust collection design simultaneously cleans in the air in the room.



Washable filter

Restored to the same performance as when new each time it is washed.

Plasma air cleaner quickly removes small dust particles and odors.

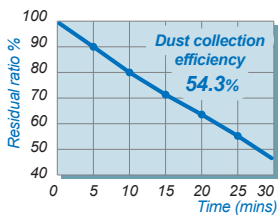
Collects dirt such as...

House dust / Pet fur and dander / Cigarette smoke / Mite carcass / Mold spore / Pollen

Absorbs odors such as...

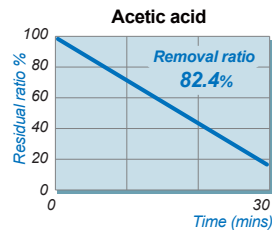
Smell of cigarette smoke / Pet odor / Kitchen garbage smell / Perspiration and body odor

Dust collection performance (ASHB09/12/18LD)

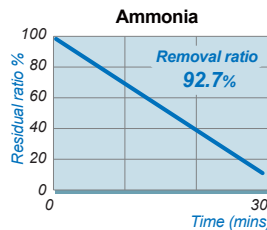


Test method: JEM 1417 Test room: 30m³, sealed room
Measurement conditions: Cigarette smoke (5 cigarettes burned simultaneously)

Deodorizing performance (ASHB09/12/18LD)



Test method: JEM1467 Test room : 1m³, acrylic sealed box
Measurement method: Cigarette smoke (5 cigarettes burned simultaneously)



Bacteria elimination effect by Polyphenol ceraglaz

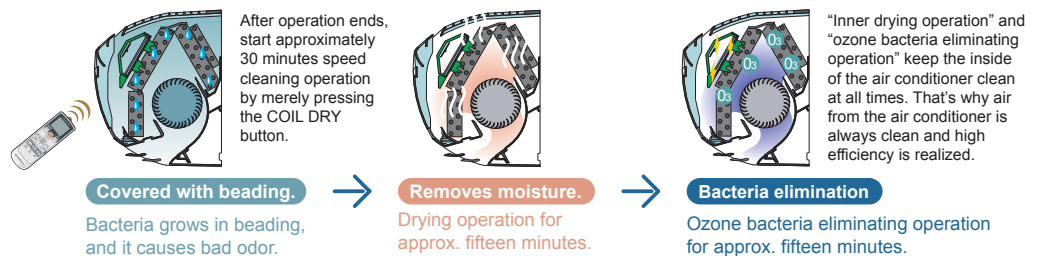


The undiluted solution of the specimen was made the specimen fluid and suspensoid 0.1ml (approximately 107CFU/ml) of the test bacteria was inoculated.

Tested by KITAZATO environment science center
Test NO. :15-0253 Test condition: at 20degrees C/24hour action

Inner drying operation and plasma effect

This model is equipped with an inner drying function. After the power is turned off, the dry operation starts inside the air conditioner. The plasma air cleaning unit eliminates bacteria, deodorizes, and keeps the interior of the air conditioner clean by generating ozone and ions.





Rank A **iPAM**
ASHA07LC
 C 2.10kW/7,200BTU/h
 H 3.00kW/10,200BTU/h

Rank A **iPAM**
ASHA09LC
 C 2.60kW/8,900BTU/h
 H 3.60kW/12,300BTU/h

Rank A **V PAM**
ASHA12LC
 C 3.50kW/11,900BTU/h
 H 4.80kW/16,400BTU/h

Rank A **ALL DC** **V PAM**
ASHA14LC
 C 4.20kW/14,300BTU/h
 H 5.60kW/19,100BTU/h

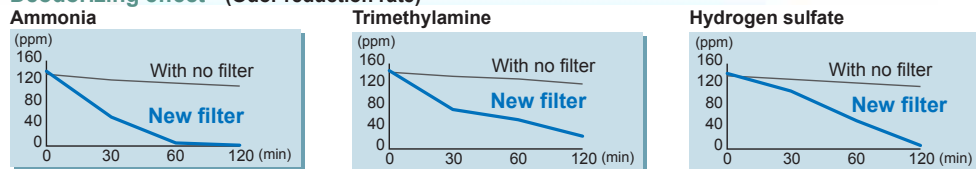
ALL DC **V PAM**
ASHA18LC
 C 5.20kW/17,700BTU/h
 H 6.25kW/21,300BTU/h

Air conditioner filter features



Long-life* Ion Deodorization Filter **Ion**
 The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.
 (* The filter can be used for approximately 3 years if it is washed under water to restore its surface action when it is dirty.)

Deodorizing effect (Odor reduction rate)



Testing organization : Environmental Sanitary Inspection Center Test method : Deodorization Test

Apple-catechin Filter **AF**
 Fine dust, invisible mold spores, and harmful microorganisms are absorbed onto the filter by static electricity, and further growth is inhibited and deactivated by the polyphenol ingredient extracted from apples.

Easy maintenance

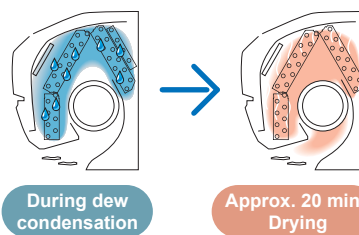
Easy maintenance and always clean.
 Troublesome maintenance has been made easy.
 Since the front panel is easy to remove, maintenance is also easy.



ASHB09/12/18LD

ASHA07/09/12/14/18LC

Inner drying operation



This model is equipped with an inner drying function. After the power is turned off, the dry operation starts inside the air conditioner. This prevents the growth of mold and bacterial inside the air conditioner.

SPECIFICATIONS		Model No.	Indoor Unit	ASHB09LD	ASHB12LD	ASHB18LD	ASHB24LD	ASHA07LC	ASHA09LC	ASHA12LC	ASHA14LC	ASHA18LC
Item			Outdoor Unit	AOHS09LD	AOHS12LD	AOHS18LD	AOHS24LD	AOHR07LC	AOHR09LC	AOHR12LC	AOHR14LC	AOHR18LC
Rank (Cooling/Heating)				A/A	A/A	B/A	A/A	A/A	A/A	A/A	A/A	B/A
Capacity	Cooling	kW		2.60 (0.5~3.7)	3.50 (0.9~4.3)	5.20 (0.9~5.7)	7.10 (2.0~8.0)	2.10 (0.5~3.0)	2.60 (0.5~3.6)	3.50 (0.9~4.3)	4.20 (0.9~5.3)	5.20 (0.9~5.7)
				3.60 (0.5~6.1)	4.80 (0.9~6.7)	6.25 (0.9~9.1)	8.10 (2.0~10.0)	3.00 (0.5~4.6)	3.60 (0.5~5.3)	4.80 (0.9~6.7)	5.60 (0.9~8.4)	6.25 (0.9~9.1)
	Heating	BTU/h		8,900	11,900	17,700	24,200	7,200	8,900	11,900(3,100~14,700)	14,300 (3,100~18,100)	17,700 (3,100~19,400)
				12,300	16,400	21,300	27,600	10,200	12,300	16,400(3,100~22,900)	19,100 (3,100~28,700)	21,300(3,100~31,000)
Moisture Removal		l/h		1.30	1.80	2.80	3.00	1.00	1.30	1.80	2.10	2.80
Room Air Circulation (High)	Inner	m ³ /h		595	635	700	1,100	595	595	635	700	700
	Outer			2,100	1,850	2,000	2,040	1,870	1,870	1,850	1,910	2,000
Input Power		V/ø/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Running Current	Cooling	A		2.90	4.30	7.60	9.70	2.50	3.20	4.30	5.00	7.60
	Heating			3.90	5.50	7.70	9.80	3.20	4.00	5.60	6.40	7.70
Power Consumption	Cooling	kW		0.61	0.91	1.72	2.21	0.47	0.655	0.92	1.11 (0.09~1.75)	1.72 (0.09~2.00)
	Heating			0.81	1.22	1.73	2.24	0.66	0.845	1.24	1.45 (0.09~2.48)	1.73 (0.09~2.66)
EER	Cooling	kW/kW		4.26	3.85	3.02	3.21	4.47	3.97	3.80	3.78	3.02
COP	Heating			4.44	3.93	3.61	3.62	4.55	4.26	3.87	3.86	3.61
Dimensions H x W x D	Inner	mm		283x790x230	283x790x230	283x790x230	320x998x228	275x790x215	275x790x215	275x790x215	275x790x215	275x790x215
		kg(lbs)		9.5(21)	9.5(21)	9.5(21)	16(35)	9(20)	9(20)	9(20)	9(20)	9(20)
Net Weight	Outer	mm		540x790x290	540x790x290	578x790x300	578x790x315	540x660x290	540x660x290	540x790x290	578x790x300	578x790x300
		kg(lbs)		34(75)	36(80)	40(88)	44(97)	32(71)	32(71)	37(82)	40(88)	40(88)
Connection Method				Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare
Connection Pipe Size (Smallø/Largeø)			mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.7	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.7	6.35/12.7
Max Pipe Length /Height Difference			m	20(15)	20(15)	20(15)	30(10)	20(15)	20(15)	20(15)	20(15)	20(15)
Permissible Range of Outdoor Temp.	Cooling	°C		15	15	15	20	15	15	15	15	15
	Heating			-10~43	-10~43	-10~43	-10~43	-10~43	-10~43	-10~43	-10~43	-10~43
Refrigerant				R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A

WALL MOUNTED TYPE

Flat panel and family look design



ASHA24LC
 Ⓞ 7.10kW/24,200BTU/h
 Ⓡ 8.00kW/27,600BTU/h



ASHA30LC
 Ⓞ 8.00kW/27,300BTU/h
 Ⓡ 9.00kW/30,700BTU/h

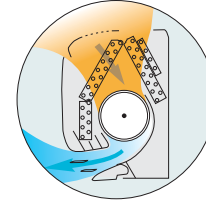
*The following contents apply to ASHA24LC models.

ALL DC

Heat exchange capacities 20% up compared to conventional models



DC fan motor

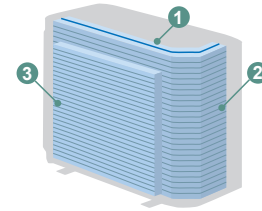


High efficiency layout
 Large air flow and quiet operation by new air flow path

- a** DC fan motor
- b** V-PAM control
V-PAM technology makes a compressor more powerful.
- c** DC scroll compressor
More compact compared with conventional model



Front view



Back view

New 3-row heat exchange system

Compact design

New model



H320 x W998 x D228



44kg

H578 x W790 x D315

Conventional model



H320 x W1,120 x D220

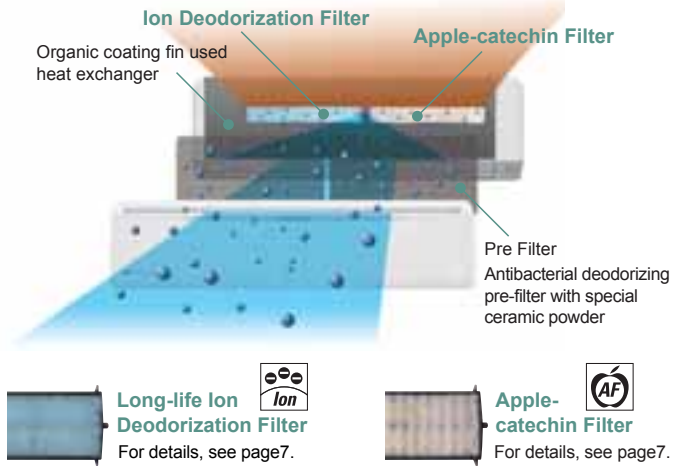


70kg

H900 x W900 x D350

(unit:mm)

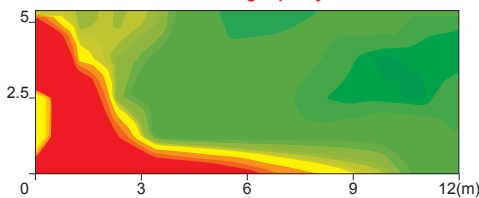
Air conditioner filter features



Power diffuser

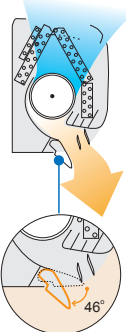
“Strong vertical air flow” provides powerful floor level heating.

No.1 maximum heating capacity 10kW attained



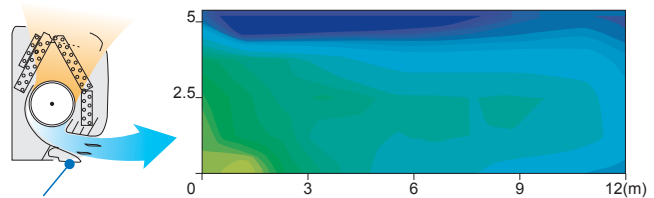
Outside air conditions: 2°C 60%
 Operation contents: Heating,
 Set temperature (Max set temp)
 30°C, Air flow Hi,
 Air direction downward and front

33 32 31 30 29 (°C)



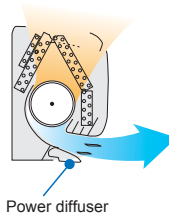
Power diffuser (full open)

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



Outside air conditions: 35°C 40%
 Operation contents: Cooling,
 Set temperature (Min set temp)
 18°C, Air flow Hi,
 Air direction downward and front

15 16 17 18 (°C)



Power diffuser

FLOOR TYPE

Simple & Thin design harmonizes with the interior

NEW



Optional Parts

Wired - Type (with weekly / setback timer)



Rank **A** ALL DC V PAM

AGHV09LA

C 2.60kW/8,900BTU/h
 H 3.50kW/11,900BTU/h

Rank **A** ALL DC V PAM

AGHV12LA

C 3.50kW/11,900BTU/h
 H 4.50kW/15,400BTU/h

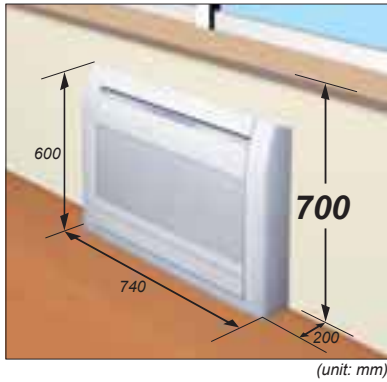
Rank **A** ALL DC V PAM

AGHV14LA

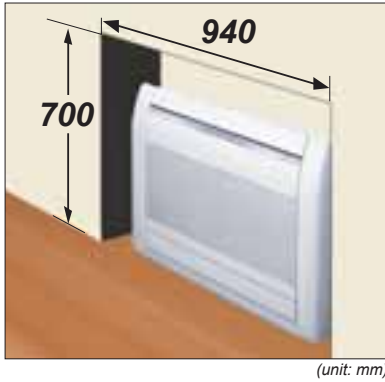
C 4.20kW/14,300BTU/h
 H 5.20kW/17,700BTU/h

Flexible & easy installation

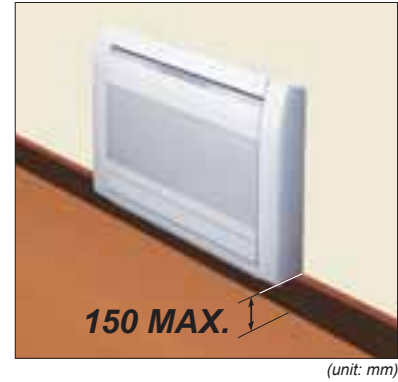
Beneath standard window



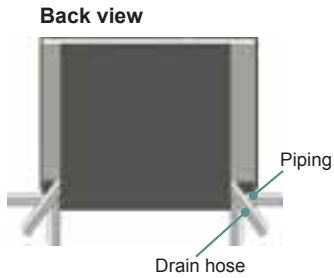
Standard concave portion



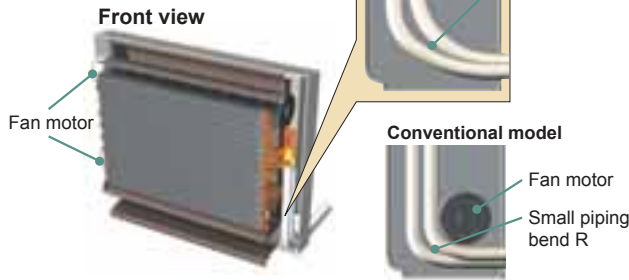
Wall



Choice of 6-direction drain and piping connection



Space is wide and piping work is easy



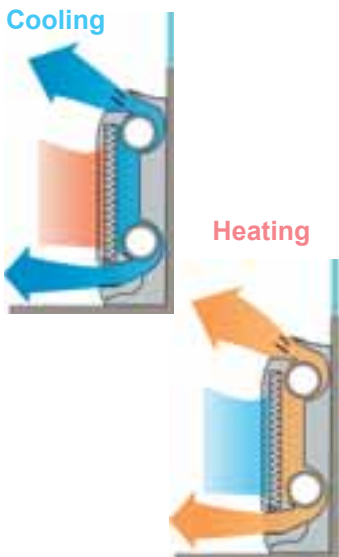
Quiet operation

Fan speed	Noise level
Quiet	22dB(A)

Low ambient outdoor temperature design

Cooling	-10 to 43°C
Heating	-15 to 24°C

2-Fan & wide air flow



SPECIFICATIONS			WALL MOUNTED TYPE			FLOOR TYPE*		
Model No.	Indoor Unit	Outdoor Unit	ASHA24LC	ASHA30LC	AGHV09LA	AGHV12LA	AGHV14LA	
Item	Outdoor Unit		AOHR24LC	AOHR30LC	AOHV09LA	AOHV12LA	AOHV14LA	
Rank (Cooling/Heating)			A/A	B/B	A/A	A/A	A/A	
Capacity	Cooling	kW	7.10(2.0~8.0)	8.00(2.0~9.0)	2.60(0.9~3.5)	3.50(0.9~4.1)	4.20(0.9~4.8)	
	Heating		8.10(2.0~11.0)	9.00(2.0~11.0)	3.50(0.9~5.2)	4.50(0.9~6.2)	5.20(0.9~7.0)	
	Cooling	BTU/h	24,200	27,300	8,900	11,900	14,300	
	Heating		27,600	30,700	11,900	15,400	17,700	
Moisture Removal		l/h	3	3.6	1.3	1.8	2.1	
Room Air Circulation (High)	Inner	m³/h	1,100	1,100	600	600	650	
	Outer		2,040	3,600	1,850	1,850	1,910	
Input Power		V/ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	
Running Current	Cooling	A	9.7	11.7	2.8	4.8	5.6	
	Heating		9.8	11.6	3.9	5.6	6.4	
Power Consumption	Cooling	kW	2.21	2.66	0.58	1.02	1.23	
	Heating		2.24	2.64	0.8	1.21	1.44	
EER	Cooling		3.21	3.01	4.48	3.43	3.41	
COP	Heating		3.62	3.41	4.38	3.72	3.61	
Dimensions H x W x D	Inner	mm	320x998x228	320x998x228	600x740x200	600x740x200	600x740x200	
		kg(lbs)	16(35)	16(35)	14	14	14	
Net Weight	Outer	mm	578x790x315	830x900x330	540x790x290	540x790x290	578x790x300	
		kg(lbs)	44(97)	62(137)	36	36	40	
Connection Method			Flare	Flare	Flare	Flare	Flare	
Connection Pipe Size (Smallø/Largeø)			mm	6.35/15.88	9.52/15.88	6.35/9.52	6.35/9.52	6.35/12.7
Max Pipe Length /Height Difference			m	30(15)	50(15)	20(15)	20(15)	20(15)
				20	30	15	15	15
Permissible Range of Outdoor Temp.	Cooling	°C	-10~43	-10~43	-10~43	-10~43	-10~43	
	Heating		-15~24	-15~24	-15~24	-15~24	-15~24	
Refrigerant			R410A	R410A	R410A	R410A	R410A	

*Tentative specifications

WALL MOUNTED TYPE

Easy-to-install and easy-to-operate wall mounted type for a comfortable life.



For ASH7FB/9FB/12FB Plastic Cabinet Outdoor Unit

For ASH9FB/12FB Plastic Cabinet Outdoor Unit

ASH7FB
 Ⓒ 2.25kW / 7,700BTU/h

ASH9FB
 Ⓒ 2.75kW / 9,400BTU/h

ASH12FB
 Ⓒ 3.40kW / 11,600BTU/h

ASH7UB
 Ⓒ 2.20kW / 7,500BTU/h
 Ⓜ 2.30kW / 7,800BTU/h

ASH9UC
 Ⓒ 2.60kW / 8,900BTU/h
 Ⓜ 2.95kW / 10,100BTU/h

ASH12UC
 Ⓒ 3.25kW / 11,100BTU/h
 Ⓜ 3.95kW / 13,500BTU/h

SPECIFICATIONS			WALL MOUNTED TYPE							
Model No.	Indoor Unit		ASH7FB	ASH7UB	ASH9FB	ASH9UC	ASH12FB	ASH12UC	ASH9UB	ASH12UB
Item	Outdoor Unit		AOH7FB	AOH7UB	AOH9FB	AOH9UC	AOH12FB	AOH12UC	AOH9UB	AOH12UB
Rank			C	D / D	D	E / C	E	E / D	A / A	A / A
Capacity	Cooling	kW	2.25	2.20	2.75	2.60	3.40	3.25	2.90	3.70
			-	2.30	-	2.95	-	3.95	3.05	4.00
	Cooling	BTU/h	7,700	7,500	9,400	8,900	11,600	11,100	9,900	12,600
			-	7,800	-	10,100	-	13,500	10,400	13,600
Moisture Removal		l/h	1.0	1.0	1.3	1.3	1.8	1.8	1.3	1.9
Room Air Circulation (High)	Inner	m³/h	380	380	540	540	540	540	600	700
	Outer		1,350	1,350	1,680	1,350	1,470	1,700	1,470	1,710
Input Power		V/ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Running Current	Cooling	A	3.7	3.9	4.7	4.8	6.2	5.9	3.7	5.0
	Heating		-	3.6	-	4.1	-	5.6	3.3	4.6
Power Consumption	Cooling	kW	0.80	0.83	1.05	1.07	1.33	1.35	0.84	1.13
	Heating		-	0.75	-	0.90	-	1.28	0.75	1.04
EER	Cooling	kW/kW	2.81	2.65	2.62	2.43	2.56	2.41	3.45	3.27
COP	Heating		-	3.07	-	3.28	-	3.09	4.07	3.85
Dimensions H x W x D	Inner	mm	257x808x187	257x808x187	257x808x187	257x808x187	257x808x187	257x808x187	257x790x215	275x790x215
		kg(lbs)	8(18)	8(18)	8(18)	8(18)	8(18)	8(18)	9(20)	9(20)
Net Weight	Outer	mm	535x650x250	535x650x250	535x695x250	535x650x250	535x695x250	535x695x250	535x695x250	535x780x250
		kg(lbs)	25(55)	26(57)	30(66)	28(82)	32(71)	31(68)	30(66)	35(77)
Connection Method			Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare
Connection Pipe Size (Smallø/Largeø)		mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52
Max Pipe Length /Height Difference		m	10	10	15	15	15	15	15	15
			5	5	8	8	8	8	8	8
Permissible Range of Outdoor Temp.	Cooling	°C	21~43	21~43	21~43	21~43	21~43	21~43	21~43	21~43
	Heating		-	-5~24	-	-5~24	-	-5~24	-5~24	-5~24
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A

CEILING WALL TYPE

New intelligent and beautiful air conditioner matches any scene.



For AWG14UB

For AWG18FA/18UA/18FB/18UB/24FB/24UB

For AWG24FA/24UA/30FB/30UB

AWG18FA Rank A
 Ⓒ 5.40kW / 18,400BTU/h

AWG18FB
 Ⓒ 5.40kW / 18,400BTU/h

AWG24FA Rank A
 Ⓒ 6.80kW / 23,200BTU/h

AWG24FB
 Ⓒ 6.80kW / 23,200BTU/h

AWG30FB
 Ⓒ 7.90kW / 27,000BTU/h

AWG14UB
 Ⓒ 4.20kW / 14,300BTU/h
 Ⓜ 4.60kW / 15,700BTU/h

AWG18UA Rank A
 Ⓒ 5.40kW / 18,400BTU/h
 Ⓜ 5.70kW / 19,500BTU/h

AWG18UB
 Ⓒ 5.40kW / 18,400BTU/h
 Ⓜ 5.70kW / 19,500BTU/h

AWG24UA Rank A
 Ⓒ 6.80kW / 23,200BTU/h
 Ⓜ 7.40kW / 25,300BTU/h

AWG24UB
 Ⓒ 6.80kW / 23,200BTU/h
 Ⓜ 7.40kW / 25,300BTU/h

AWG30UB
 Ⓒ 7.90kW / 27,000BTU/h
 Ⓜ 8.40kW / 28,700BTU/h

Moisture Up/Down Auto Flaps Auto Shut Flaps Adjust Restart Auto Changeover
 Sleep On-Off Program Wash
 (ASH9UB/12UB: Except "Program"
 ASH14FB: Except "Auto Changeover"
 ASH14FB/14UB: Except "ON/OFF Timer")

Moisture Double Auto Flaps Auto Shut Flaps Adjust Restart Auto Changeover Sleep Program
 (ASG18FA/ASG18/24/30FB: Except "Auto Changeover")
 Optional



ASH9UB Rank A
 C 2.90kW / 9,900BTU/h
 H 3.05kW / 10,400BTU/h

ASH14FB
 C 4.20kW / 14,300BTU/h

ASH12UB Rank A
 C 3.70kW / 12,600BTU/h
 H 4.00kW / 13,600BTU/h

ASH14UB
 C 4.25kW / 14,500BTU/h
 H 4.80kW / 16,400BTU/h



ASG18FA Rank A
 C 5.40kW / 18,400BTU/h

ASG18FB
 C 5.40kW / 18,400BTU/h

ASG24FB
 C 6.80kW / 23,200BTU/h

ASG30FB
 C 7.90kW / 27,000BTU/h

ASG18UA Rank A
 C 5.40kW / 18,400BTU/h
 H 5.70kW / 19,500BTU/h

ASG18UB
 C 5.40kW / 18,400BTU/h
 H 5.70kW / 19,500BTU/h

ASG24UB
 C 6.80kW / 23,200BTU/h
 H 7.40kW / 25,300BTU/h

ASG30UB
 C 7.90kW / 27,000BTU/h
 H 8.40kW / 28,700BTU/h

WALL MOUNTED TYPE									
ASH14FB	ASH14UB	ASG18FA	ASG18UA	ASG18FB	ASG18UB	ASG24FB	ASG24UB	ASG30FB	ASG30UB
AOH14FB	AOH14UB	AOG18FA	AOG18UA	AOG18FB	AOG18UB	AOG24FB	AOG24UB	AOG30FB	AOG30UB
C	B / A	A	A / A	C	C / D	C	C / D	C	C / D
4.20	4.25	5.40	5.40	5.40	5.40	6.80	6.80	7.90	7.90
-	4.80	-	5.70	-	5.70	-	7.40	-	8.40
14,300	14,500	18,400	18,400	18,400	18,400	23,200	23,200	27,000	27,000
-	16,400	-	19,500	-	19,500	-	25,300	-	28,700
2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.5	3.0	3.0
700	700	950	950	795	800	950	970	1,040	1,040
1,755	1,670	3,200	3,200	3,400	3,200	3,200	3,200	3,320	3,320
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
6.6	6.1	7.3	7.3	8.5	8.3	10.6	10.6	13.0	13.0
-	5.6	-	7.0	-	8.3	-	10.5	-	13.0
1.48	1.38	1.66	1.66	1.90	1.85	2.40	2.40	2.75	2.75
-	1.27	-	1.58	-	1.85	-	2.40	-	2.75
2.84	3.08	3.25	3.25	2.84	2.92	2.83	2.83	2.87	2.87
-	3.78	-	3.61	-	3.08	-	3.08	-	3.05
275x790x215	275x790x215	320x1,120x220	320x1,120x220	320x1,120x220	320x1,120x220	320x1,120x220	320x1,120x220	320x1,120x220	320x1,120x220
9(20)	9(20)	16(35)	16(35)	16(35)	16(35)	16(35)	16(35)	16(35)	16(35)
535x780x250	535x780x250	650x830x320	650x830x320	650x830x320	650x830x320	650x830x320	650x830x320	900x900x350	900x900x350
35(77)	37(82)	51(112)	52(114)	47(103)	52(114)	59(130)	59(130)	73(161)	74(163)
Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare
6.35/12.70	6.35/12.70	6.35/15.88	6.35/15.88	6.35/15.88	6.35/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
15	15	20	20	20	20	20	20	30	25
8	8	8	8	8	8	8	8	15	15
21~43	21~43	21~43	-5~43	21~43	0~43	21~43	0~43	0~43	0~43
-	-5~24	-	-10~24	-	-6~24	-	-6~24	-	-6~24
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A

SPECIFICATIONS		CEILING WALL TYPE												
Item	Model No.	Indoor Unit		AWG14UB	AWG18FA	AWG18UA	AWG18FB	AWG18UB	AWG24FA	AWG24UA	AWG24FB	AWG24UB	AWG30FB	AWG30UB
		Outdoor Unit		AOG14UB	AOG18FA	AOG18UA	AOG18FB	AOG18UB	AOG24FA	AOG24UA	AOG24FB	AOG24UB	AOG30FB	AOG30UB
Rank				C / B	A	A / A	C	C / D	A	A / A	C	C / D	C	C / D
Capacity	Cooling	kW	4.20	5.40	5.40	5.40	5.40	6.80	6.80	6.80	6.80	7.90	7.90	
			4.60	-	5.70	-	5.70	-	7.40	-	7.40	-	8.40	
	Heating	BTU/h	14,300	18,400	18,400	18,400	18,400	23,200	23,200	23,200	23,200	27,000	27,000	
			15,700	-	19,500	-	19,500	-	25,300	-	25,300	-	28,700	
Moisture Removal		l/h	1.6	2.0	2.0	2.0	2.0	2.5	2.5	2.5	2.5	3.0	3.0	
Room Air Circulation (High)	Inner	m ³ /h	650	900	900	760	760	1,050	1,050	900	900	950	950	
	Outer	m ³ /h	1,600	3,200	3,200	3,400	3,200	3,320	3,320	3,200	3,200	3,320	3,320	
Input Power		V/ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	
Running Current	Cooling	A	6.5	7.3	7.3	8.5	8.3	9.4	9.4	10.6	10.6	13.0	13.0	
	Heating	A	5.7	-	7.0	-	8.3	-	9.0	-	10.5	-	13.0	
Power Consumption	Cooling	kW	1.45	1.66	1.66	1.90	1.85	2.12	2.12	2.40	2.40	2.75	2.75	
	Heating	kW	1.28	-	1.58	-	1.85	-	2.05	-	2.40	-	2.75	
EER	Cooling	kw/kW	2.90	3.25	3.25	2.84	2.92	3.21	3.21	2.83	2.83	2.87	2.87	
COP	Heating	kw/kW	3.59	-	3.61	-	3.08	-	3.61	-	3.08	-	3.05	
Dimensions H x W x D	Inner	mm	270x1,150x285	270x1,150x285	270x1,150x285	270x1,150x285	270x1,150x285	270x1,150x285	270x1,150x285	270x1,150x285	270x1,150x285	270x1,150x285	270x1,150x285	
		kg(lbs)	16(35)	16(35)	16(35)	16(35)	16(35)	16(35)	16(35)	16(35)	16(35)	16(35)	16(35)	
		mm	530x750x250	650x830x320	650x830x320	650x830x320	650x830x320	900x900x350	900x900x350	650x830x320	650x830x320	900x900x350	900x900x350	
Net Weight	Outer	kg(lbs)	35(77)	51(112)	52(114)	47(103)	52(114)	73(161)	74(163)	58(128)	59(130)	73(161)	74(163)	
		mm	35(77)	51(112)	52(114)	47(103)	52(114)	73(161)	74(163)	58(128)	59(130)	73(161)	74(163)	
Connection Method			Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	
Connection Pipe Size (Smallø/Largeø)		mm	6.35/12.70	6.35/15.88	6.35/15.88	6.35/15.88	6.35/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	
Max Pipe Length /Height Difference	m	15	20	20	20	20	20	20	20	20	20	30	25	
		8	8	8	8	8	8	8	8	8	8	15	15	
Permissible Range of Outdoor Temp.	Cooling	°C	21~43	21~43	-5~43	21~43	0~43	21~43	-5~43	21~43	0~43	0~43	0~43	
	Heating	°C	-6~24	-	-10~24	-	-6~24	-	-10~24	-	-6~24	-	-6~24	
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	

COMPACT CASSETTE TYPE

Grille is an option.



AUHA12L
 ● 3.50kW/11,950BTU/h
 ● 4.10kW/14,000BTU/h



AUHA14L
 ● 4.30kW/14,650BTU/h
 ● 5.00kW/17,050BTU/h



AUHA18L
 ● 5.20kW/17,700BTU/h
 ● 6.00kW/20,500BTU/h



AUHA24L
 ● 7.10kW/24,200BTU/h
 ● 8.00kW/27,300BTU/h



Realised No.1 energy saving in compact cassette type
 24 type model in compact cassette category

This design makes us feel wide angle airflow
NEW PANORAMA FLOW DESIGN

Optional Parts

Remote controller is not supplied with the indoor unit. Separate purchase is necessary.

UTB-GNA UTB-GUD

Compact Outdoor Unit

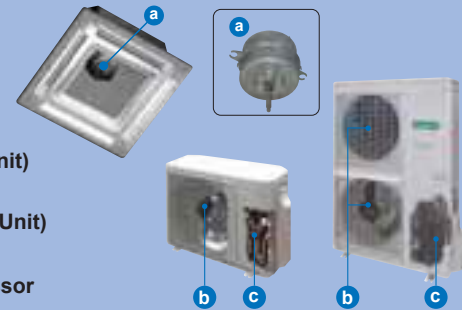
No.1 Compact

RANK A

	AUHA12L	AUHA14L	AUHA18/24L	AUHA36/45L
EER (Cooling)	3.33	3.21	3.21	3.21
COP (Heating)	3.69	3.71	3.61	3.71

ALL DC

- a High efficiency DC fan motor (Indoor Unit)
- b High efficiency DC fan motor (Outdoor Unit)
- c High efficiency DC twin rotary compressor



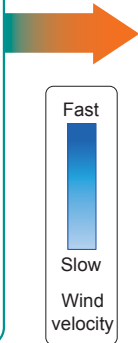
2-stage turbo fan (AUHA12-24L)

High efficiency design by 2 stages structure

Conventional turbo fan

In case of conventional fan, airflow move to motor side which made air outlet range narrow, and velocity of air passing through heat exchanger was uneven.

(Motor side)



2-stage turbo fan

2 stages of airflow attracting each other produced by 2 stages structure of new fan, realize airflow spreading constantly and widely to heat exchanger.

1-stage + 2-stage

Heat exchange efficiency **20%UP**

Quiet quality

Adoption of laminar wing

Laminar wing

Airflow run through smoothly along the laminar wing

Quiet

No airflow separation

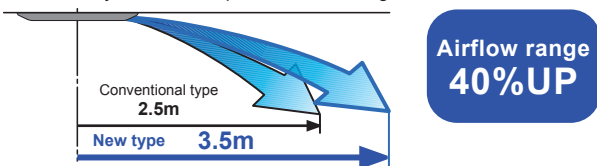
Spin direction

Airflow direction

Airflow control (AUHA12-18L)

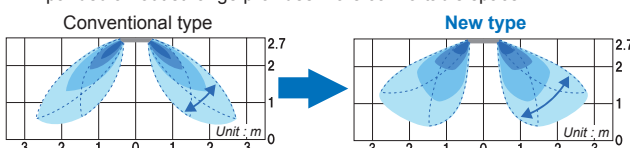
Improvement in airflow range

* Wind velocity at maximum point of airflow range is 0.5m/s



Expansion of air outlet adjustment range

Auto airflow direction and auto swing
 Expanded air outlet range provides more comfortable space



Easy maintenance (AUHA12-18L)

1 Maintenance of fan motor and fan

Maintenance of fan motor and fan can be done easily after taking off the panel, since bell-mouth can be removed easily.

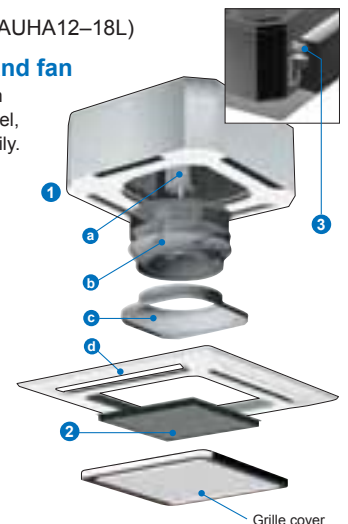
- a: Fan motor
- b: 2-stage turbo fan
- c: Bell-mouth
- d: Panel

2 Long life filter

: standard equipment

3 Adaptation of transparent drainage parts

Easy check of operation of drain-up kit when you install



CASSETTE TYPE



Optional Parts

Remote controller is not supplied with the indoor unit. Separate purchase is necessary.

UTB-GNA UTB-GUD



AUHA36L
 C 10.00kW/34,100BTU/h
 H 11.20kW/38,200BTU/h



AUHA45L
 C 12.50kW/42,700BTU/h
 H 14.00kW/47,800BTU/h

Quiet operation (Example : AUHA18 Type)

Conventional type		New type	
Fan speed	Noise level	Fan speed	Noise level
High	44dB(A)	High	38dB(A)
Med	41dB(A)	Med	34dB(A)
Low	39dB(A)	Low	30dB(A)
Quiet	No setting	Quiet	26dB(A)

Long piping & low ambient outdoor temperature design

	Max. Length (Chargeless)	Max. Height
AUHA12~18L	25m (15m)	15m
AUHA24L	30m (15m)	20m

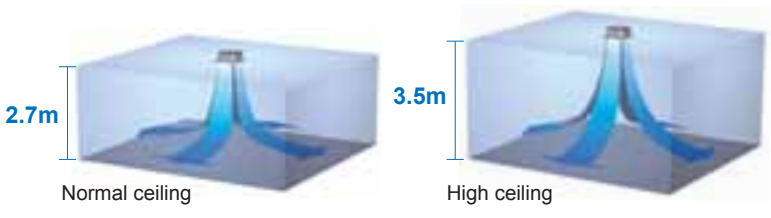
	Low ambient outdoor temperature
Cooling	-10 to 46 C°
Heating	-15 to 24 C°

Easy installation

► Various work setting done from remote controller at the time of installation
 Easy setting by wireless or wired remote controller



► Switching to "High ceiling mode" (AUHA18/24L)
 Air reaches sufficiently up to 3.5m height, even it is compact cassette type



*1:October 18, 2006, announcement at IKK2006. In package air conditioner for commercial use (Our company's investigation)
 *2:October 18, 2006, announcement at IKK2006. As fan for air conditioner (Our company's investigation)
 *3:As of January 2006, size of outdoor unit minimized in 5.3kW and 7.0kW class European size (compact) ceiling cassette air conditioner. (Our company's investigation)
 *4:The specification values exclude the panel.

SPECIFICATIONS			COMPACT CASSETTE TYPE				CASSETTE TYPE		
Model No.	Indoor Unit		AUHA12L	AUHA14L	AUHA18L	AUHA24L	AUHA36L	AUHA45L	
Item	Outdoor Unit		AOHA12L	AOHA14L	AOHA18L	AOHA24L	AOHA36L	AOHA45L	
Rank (Cooling/Heating)			A / A	A / A	A / A	A / A	A / A	A / A	
Capacity	Cooling	kW	3.50	4.30	5.20	7.10	10.00	12.50	
			Heating	4.10	5.00	6.00	8.00	11.20	14.00
	Cooling	BTU/h	11,950	14,650	17,700	24,200	34,100	42,700	
			Heating	14,000	17,050	20,500	27,300	38,200	47,800
Moisture Removal			l/h	1.2	1.5	2.2	2.7	3.5	4.5
Room Air Circulation (High)	Inner	m ³ /h	600	680	680	930	1,650	1,750	
	Outer		1,780	1,910	2,000	2,470	6,600	6,600	
Input Power			V/ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	
Running Current	Cooling	A	4.6	5.8	7.1	9.7	13.6	17.0	
	Heating		4.9	5.9	7.3	11.5	13.2	16.5	
Power Consumption	Cooling	kW	1.05	1.33	1.62	2.21	3.11	3.89	
	Heating		1.11	1.34	1.66	2.21	3.02	3.77	
EER			Cooling	3.33	3.21	3.21	3.21	3.21	
COP			Heating	3.69	3.71	3.61	3.61	3.71	
Dimensions H x W x D	Inner	mm	245x570x570	245x570x570	245x570x570	245x570x570	296x830x830	296x830x830	
		kg(lbs)	15(33)	15(33)	15(33)	17(37)	39(86)	39(86)	
Net Weight	Outer	mm	578x790x300	578x790x300	578x790x300	578x790x315	1,290x900x330	1,290x900x330	
		kg(lbs)	40(88)	40(88)	40(88)	44(97)	98(216)	98(216)	
Connection Method			Flare	Flare	Flare	Flare	Flare	Flare	
Connection Pipe Size (Smallø/Largeø)			mm	6.35/9.52	6.35/12.70	6.35/12.70	6.35/15.88	9.52/15.88	9.52/15.88
Max Pipe Length /Height Difference			m	25	25	25	30	50	50
				15	15	15	20	30	30
Permissible Range of Outdoor Temp.	Cooling	°C	-10~46	-10~46	-10~46	-10~46	-15~46	-15~46	
	Heating		-15~24	-15~24	-15~24	-15~24	-15~24	-15~24	
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	
Grille			UTG-UFGA-W	UTG-UFGA-W	UTG-UFGA-W	UTG-UFGA-W	-	-	

FLOOR/CEILING UNIVERSAL TYPE



ABHA18L
 C 5.20kW/17,700BTU/h
 H 6.00kW/20,500BTU/h



ABHA24L
 C 7.10kW/24,200BTU/h
 H 8.00kW/27,300BTU/h

Optional Parts

Remote controller is not supplied with the indoor unit. Separate purchase is necessary.

UTB-GNA UTB-GUD



CEILING TYPE



ABHA36L
 C 10.00kW/34,100BTU/h
 H 11.20kW/38,200BTU/h

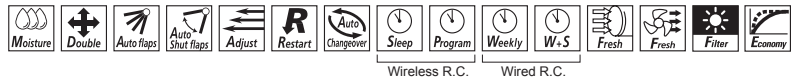


ABHA45L
 C 12.50kW/42,700BTU/h
 H 14.00kW/47,800BTU/h

Optional Parts

Remote controller is not supplied with the indoor unit. Separate purchase is necessary.

UTB-GNA UTB-GUD



RANK A

FLOOR / CEILING UNIVERSAL TYPE

	ABHA18/24L	ABHA36/45L
EER (Cooling)	3.21	3.21
COP (Heating)	3.61	3.71

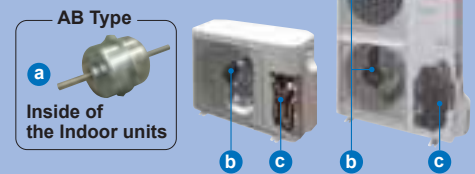
DUCT TYPE

	ARHA12L	ARHA14L	ARHA18/24L	ARHA36/45L
EER (Cooling)	3.33	3.21	3.21	3.21
COP (Heating)	3.69	3.71	3.61	3.71

ALL DC

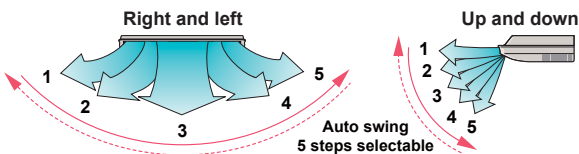


- a DC fan motor (Indoor units)
- b DC fan motor (Outdoor units)
- c DC twin rotary compressor



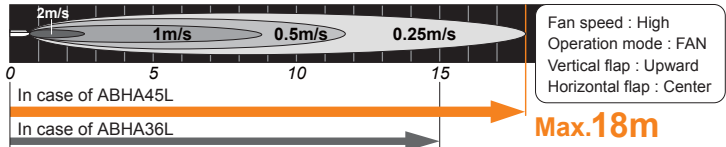
Multi auto swing, long distance airflow For CEILING TYPE

A combination of right/left and up/down directional swing allows 3-dimensional air direction control.



Long distance airflow Due to air blasting performance of maximum 18m, long-reach airflow is available for both cooling and heating operation.

Side View

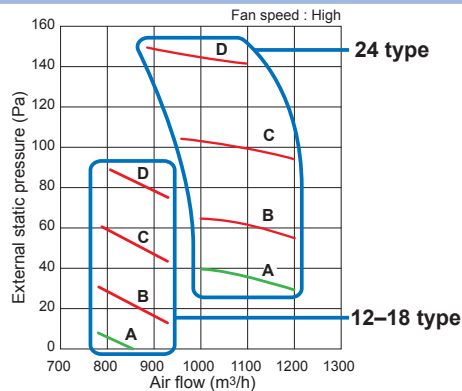


For ARHA18/24L

High static pressure mode function

Responds to the wide static pressure range by 4-step static pressure mode.

Static pressure range
 12-18 type: 0 to 90Pa
 24 type: 30 to 150Pa



Static pressure setting

(Example : ARHA18 Type)

Conventional type



Setting by DIP switch inside control box



New type



Easy setting by wired remote controller



DUCT TYPE



Rank **A** ALL DC PAM
ARHA12L
 C 3.50kW/11,950BTU/h
 H 4.10kW/14,000BTU/h

Rank **A** ALL DC PAM
ARHA14L
 C 4.30kW/14,650BTU/h
 H 5.00kW/17,050BTU/h

Rank **A** ALL DC PAM
ARHA18L
 C 5.20kW/17,700BTU/h
 H 6.00kW/20,500BTU/h

Optional Parts

 Remote controller is not supplied with the indoor unit. Separate purchase is necessary.
 UTB-GUD



ARHA24L
 Moisture Adjust Restart Auto Changeover Weekly W+S Distributing Fresh Fresh Economy




ARHA36/45L
 Moisture Adjust Restart Auto Changeover Weekly W+S Distributing Fresh Fresh Economy

Rank **A** ALL DC PAM
ARHA24L
 C 7.10kW/24,200BTU/h
 H 8.00kW/27,300BTU/h

Rank **A** ALL DC PAM
ARHA36L
 C 10.00kW/34,100BTU/h
 H 11.20kW/38,200BTU/h

Rank **A** ALL DC PAM
ARHA45L
 C 12.50kW/42,700BTU/h
 H 14.00kW/47,800BTU/h

Optional Parts

 Remote controller is not supplied with the indoor unit. Separate purchase is necessary.
 UTB-GUD



Comfortable remote control performance

Three functions are combined in one unit.

Built-in timers

Weekly timer

Possible to set ON/OFF time to operate twice each day of the week.

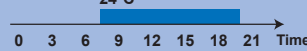


Easy-to-understand time bar display



Screen after setup

Setup screen example
 (Set to Wednesday: 8:00 to 20:00.)

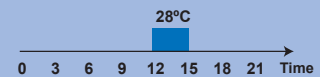


Setback timer

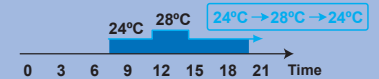
Possible to set temperature for two time spans and for each day of the week.



Setup screen example
 (Set from Sunday to Saturday: 12:00 to 15:00, 28°C.)



At "Weekly timer" + "Set back timer" setup



SPECIFICATIONS			FLOOR/CEILING TYPE				CEILING TYPE				DUCT TYPE						
Item	Model No.	Indoor Unit	ABHA18L	ABHA24L	ABHA36L	ABHA45L	ARHA12L	ARHA14L	ARHA18L	ARHA24L	ARHA36L	ARHA45L	AOHA18L	AOHA24L	AOHA36L	AOHA45L	
		Outdoor Unit	AOHA18L	AOHA24L	AOHA36L	ABHA45L	AOHA12L	AOHA14L	AOHA18L	AOHA24L	AOHA36L	AOHA45L	AOHA18L	AOHA24L	AOHA36L	AOHA45L	
Rank (Cooling/Heating)			A/A	A/A	A/A	A/A	A/A	A/A	A/A	A/A	A/A	A/A	A/A	A/A	A/A	A/A	
Capacity	Cooling	kW	5.20	7.10	10.00	12.50	3.50	4.30	5.20	7.10	10.00	12.50	3.50	4.30	5.20	7.10	
			6.00	8.00	11.20	14.00	4.10	5.00	6.00	8.00	11.20	14.00	17.00	21.00	25.00	30.00	35.00
	Heating	BTU/h	17,700	24,200	34,100	42,700	11,950	14,650	17,700	24,200	34,100	42,700	11,950	14,650	17,700	24,200	34,100
			20,500	27,300	38,200	47,800	14,000	17,050	20,500	27,300	38,200	47,800	14,000	17,050	20,500	27,300	38,200
Moisture Removal		l/h	2.0	2.7	3.0	4.5	1.3	1.5	2.0	2.5	3.0	3.5	2.0	2.5	3.0	3.5	
Room Air Circulation (High)	Inner	m ³ /h	780	980	1,900	2,100	720	820	820	1,100	2,020	2,250	780	980	1,900	2,100	
			Outer	2,000	2,470	6,600	6,600	1,780	1,910	2,000	2,470	6,600	6,600	2,000	2,470	6,600	6,600
Input Power		V/ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	
Running Current	Cooling	A	7.10	9.70	13.6	17.0	4.6	5.8	7.10	9.70	13.6	17.0	4.6	5.8	7.10	9.70	
			Heating	7.30	9.70	13.2	16.5	4.9	5.9	7.30	9.70	13.2	16.5	4.9	5.9	7.30	9.70
Power Consumption	Cooling	kW	1.62	2.21	3.11	3.89	1.05	1.33	1.62	2.21	3.11	3.89	1.05	1.33	1.62	2.21	
			Heating	1.66	2.21	3.02	3.77	1.11	1.34	1.66	2.21	3.02	3.77	1.11	1.34	1.66	2.21
EER	Cooling	kW/kW	3.21	3.21	3.21	3.21	3.33	3.21	3.21	3.21	3.21	3.21	3.33	3.21	3.21	3.21	
COP	Heating		3.61	3.61	3.71	3.71	3.69	3.71	3.61	3.61	3.71	3.71	3.69	3.71	3.71	3.71	
Dimensions H x W x D	Inner	mm	199x990x655	199x990x655	240x1,660x700	240x1,660x700	217x953x595	217x953x595	217x953x595	270x1,135x700	270x1,135x700	270x1,135x700	217x953x595	217x953x595	217x953x595	217x953x595	
		kg (lbs)	27(60)	27(60)	44(97)	44(97)	23(51)	23(51)	23(51)	38(84)	41(90)	41(90)	23(51)	23(51)	23(51)	23(51)	
		Outer	mm	578x790x300	578x790x315	1,290x900x330	1,290x900x330	578x790x300	578x790x300	578x790x300	578x790x315	1,290x900x330	1,290x900x330	578x790x300	578x790x300	578x790x300	578x790x300
Net Weight	Outer	kg (lbs)	40(88)	44(97)	98(216)	98(216)	40(88)	40(88)	40(88)	44(97)	98(216)	98(216)	40(88)	40(88)	40(88)	40(88)	
		Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	
		mm	6.53/12.70	6.53/15.88	9.52/15.88	9.52/15.88	6.35/9.52	6.35/12.70	6.35/12.70	6.35/15.88	9.52/15.88	9.52/15.88	6.35/9.52	6.35/12.70	6.35/12.70	6.35/12.70	
Max Pipe Length /Height Difference	m		25	30	50	50	25	25	25	30	50	50	25	25	25	25	
			15	20	30	30	15	15	15	20	30	30	15	15	15	15	
Permissible Range of Outdoor Temp.	Cooling	°C	-10~46	-10~46	-15~46	-15~46	-10~46	-10~46	-15~46	-15~46	-15~46	-15~46	-10~46	-10~46	-15~46	-15~46	
			Heating	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	

MULTI TYPE SYSTEMS

You can select any type of air conditioners as you like to suit the atmosphere of your room.



Energy Saving

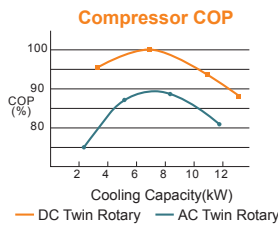
High Efficiency DC Inverter Multi system permits energy saving operation and 40% higher efficiency than a Constant-Speed Multi system. Improved Inverter cooling ratio prevents decrease in capacity under overload operation.

Energy Saving Over a Year's Time



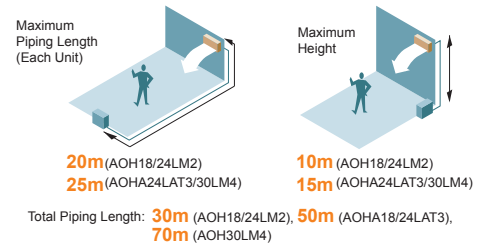
DC Twin Rotary Compressor

Efficiency is improved over a wide range from high-speed rotation at high load up to the low-speed rotation region at low-load where long-term use is especially frequent, and high power is produced with little power consumption. Also, twin rotor provides low-vibration and quiet operation.



Flexible Installation

The outdoor unit can be installed in a wide range of properties by the long piping of 30m (gas charge less) for AOH18/24LM2, 50m (gas charge less up to 30m) for AOAHA18/24LAT3 and 70m (gas charge less up to 40m) for AOH30LM4.

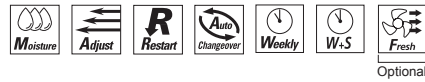


SPECIFICATIONS			INVERTER MULTI-TYPE SYSTEMS							
Model No.	Indoor Unit		ABH14LB ARH9LU, ARH12/14LU AUH12/14LB ASH7/9/12LM	ABH14/18LB ARH9LU, ARH12/14/18LU AUH12/14/18LB ASH7/9/12LM ASH18LB	ABH14LB ARH9LU, ARH12/14LU AUH12/14LB ASH7/9/12LM ASHA14LA	ABH14/18LB ARH9LU, ARH12/14/18LU AUH12/14/18LB ASH7/9/12LM ASHA14/18LA	ABH14/18/24LB ARH9LU, ARH12/14/18/22LU AUH12/14/18LB ASH7/9/12LM ASH18/24LB			
Item	Outdoor Unit		AOH18LM2	AOH24LM2	AOHA18LAT3	AOHA24LAT3	AOH30LM4			
Standard combination indoor unit			ARH14LU+ARH9LU	ASH18LB+ASH12LM	ASHA14LA+ASH7LM x2	ASHA14LA+ASH9LM x2	ASH18LB+ASH9LM x3			
Rank (Cooling/Heating)			B / B	A / A	A / A	A / A	A / A			
Capacity	Cooling	kW	5.50	5.80	5.40	6.80	8.00			
			6.40	6.40	6.80	8.00	9.60			
	Cooling	BTU/h	18,800	19,800	18,400	23,200	27,300			
			21,800	21,800	23,200	27,300	32,800			
Moisture Removal			l/h	-	-	-	-			
Room Air Circulation (High)			Inner	Outer	m ³ /h	2,800	2,800	3,050	3,300	3,500
Input Power						V/ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50
Running Current	Cooling	A	7.50	7.60	5.90	8.50	9.70			
			8.00	7.20	7.10	8.80	10.5			
Power Consumption	Cooling	kW	1.73	1.73	1.35	1.94	2.22			
			1.84	1.64	1.62	2.00	2.40			
EER	Cooling	kW/kW	3.18	3.35	4.00	3.50	3.60			
COP	Heating		3.48	3.90	4.20	4.00	4.00			
Dimensions H x W x D			[ABH14/18/24]199x990x655 [AUH12*14*18]235x580x580(+70) [ARH9]217x665x595 [ARH12/14/18/22]217x953x595 [ASH7/9/12]257x808x187 [ASH18/24]320x1,120x220 [ASHA14/18]275x790x215							
Net Weight			[ABH14/18/24]28(62) [AUH12/14/18]18(38) [ARH9]18(38) [ARH12/14]25(55) [ARH18/22]26(57) [ASH7/9/12]8(18) [ASH18/24]16(35) [ASHA14/18]9(20)							
Connection Method			Flare							
Connection Pipe Size (Small ø/Large ø)			mm 6.35/9.52, 12.70							
Max Pipe Length(Total)			m 30							
Height Difference			m 10							
Permissible Range of Outdoor Temp.			°C 0~46							
Refrigerant			R410A							

* Grille not included

INVERTER DUCT TYPE

Easy maintenance with external control box.



ARH12L
 C 3.5kW / 11,950BTU/h
 H 4.0kW / 13,700BTU/h



Universal type



Wired-Type
(With Weekly/Setback Timer)



ARH14L
 C 4.3kW / 14,700BTU/h
 H 4.8kW / 16,400BTU/h

ARH18L
 C 5.20kW / 17,800BTU/h
 H 6.20kW / 21,200BTU/h



ARH24L
 C 7.10kW / 24,200BTU/h
 H 8.00kW / 27,300BTU/h

ARH30L
 C 8.50kW / 29,000BTU/h
 H 10.00kW / 34,100BTU/h

ARH36L
 C 10.00kW / 34,100BTU/h
 H 11.20kW / 38,200BTU/h

ARH45L
 C 12.50kW / 42,700BTU/h
 H 14.00kW / 47,800BTU/h



For ARH24L

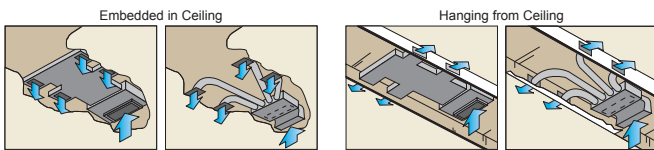


For ARH30/36L

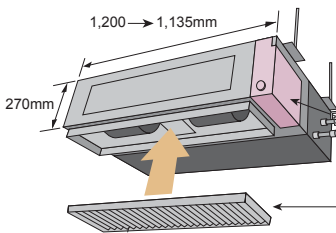


For ARH45L

Installation styles (ARH24/30/36/45L)



Slim & Compact design



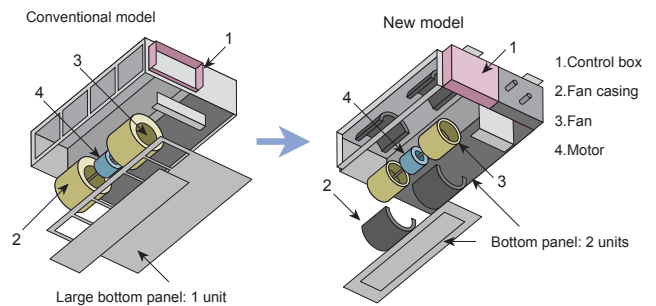
In the case of bottom suction type, as seen from lower rear part. In addition to the slim height of 270 mm which is our sales point, further compactification is attained by reducing 65mm from the width with the flanking controlbox embedded inside the chassis.

Control Box that has been convex shape is now united with main unit (DIP Switch is located on the internal substrate.)

One-touch operating and easy-to-install long-life filter (Optional Parts)

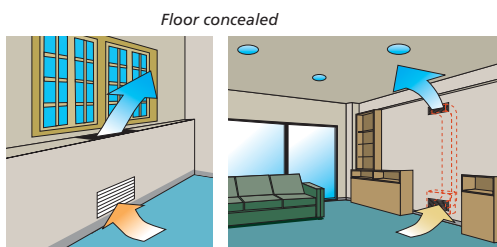
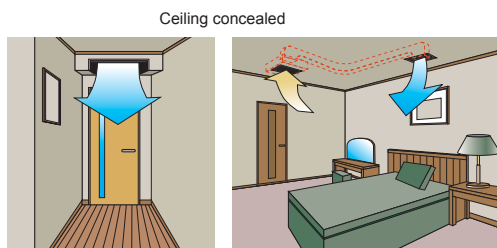
Easy maintenance

In the case of rear suction type, as seen from lower rear part



Structural improvement is attained by making the bottom panel two pieces, front and rear, and the internal fan casing is also made dismountable in two pieces, namely, upper and lower ones. The motor and fan maintenance and dismounting can be made easily by removing the rear panel and lower part of the casing with the main chassis installed.

Flexible installation (ARH12/14/18L)



Optional function for comfort (ARH12/14/18L)

Optional parts



Simple remote controllers



Remote Sensor

- Simple remote controllers (UTB-GPB)
Dimension (HxWxD): 120x75x14mm
Background light!!

- Remote sensor unit (UTD-RS100)

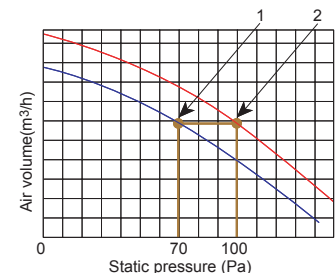
Optional parts

- Remote sensor unit ————— UTD-RS100
- Simple remote controller ———— UTB-GPB
- Flange (square) ————— UTD-SF045T
- Flange (round) ————— UTD-RF204
- Flexible duct ————— UTD-RD202
- Long life filter ————— UTD-LF25NA

Low static pressure mode function (ARH24/30/36/45L)

1. Low static pressure mode 1 air volume at 70Pa (fan speed: high)
2. Normal Mode Air volume at 100Pa (fan speed: high)

When installed, normal middle static pressure mode and low static pressure mode can be selected by switching over using DIP switch on the board in the control box. Therefore, these models can be operated under the wide range of conditions.



Other features

- Air intake position is selectable. (Rear or Bottom)
- Air outlet shape is selectable at the time of purchase. (Round or Square)
- Drain pipe position is selectable. (Right or Left)
- Fresh air can be taken in.



Wired-Type
(With Weekly/Setback Timer)

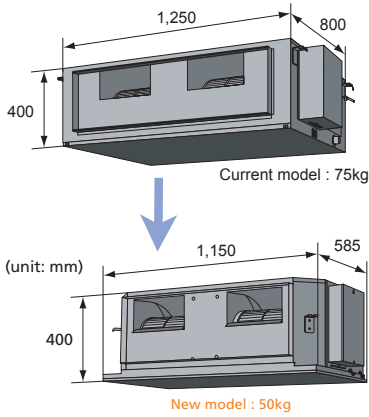


ARH45LH
 C 12.50kW / 42,700BTU/h
 H 14.00kW / 47,800BTU/h

ARH54L
 C 14.00kW / 47,800BTU/h
 H 16.00kW / 54,600BTU/h

Easy installation (Compact size & Lightweight)

By downsizing basic chassis and reducing materials weight, compact size and lightweight are realized.



Pursuance of amenity performance

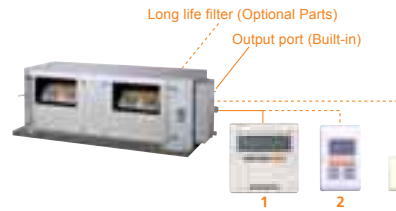
Various remote controllers and sensors can be selected.

1. Wired Remote Controller with Thermo Sensor

- Room temperature sensor selection
- WEEKLY timer
- Temperature SET BACK timer
- Group control system
- Child lock
- Dual remote controllers <optional parts>
- AUTO restart
- Energy saving
- Auto changeover <for heating>
- Hot start <for heating>

2. Simple Remote Controller (Optional Parts)

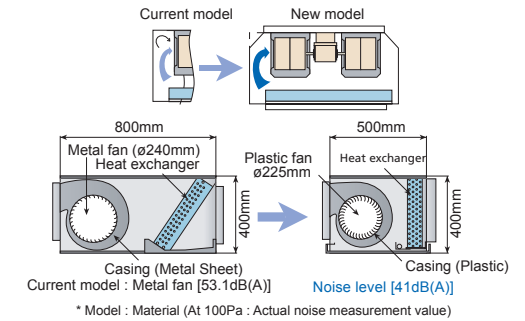
3. Remote Sensor (Optional Parts)



Operation sound (Low noise)

Turbulent air flow is reduced by cutting off the corners of conventional indoor unit front panel and fan case. Uniform internal air pressure makes the noise decreased down to 41 dB (ARH45LH) and 42 dB (ARH54L).

- Large air flow volume of 1,900m³ (ARH45LH) and 3,000m³ (ARH54L) is realized by adopting large fan. (At 100Pa)
- Low noise is realized by adopting plastic case, plastic fan, and 3-step airflow volume switch.
- The noise is decreased by the plastic fan.
- Sirocco fan for airflow and indoor unit fan casing are processed by plastic.



SPECIFICATIONS			INVERTER DUCT TYPE								
Item	Model No.	Indoor Unit	ARH12L	ARH14L	ARH18L	ARH24L	ARH30L	ARH36L	ARH45L	ARH45LH	ARH54L
		Outdoor Unit	AOH12L	AOH14L	AOH18L	AOH24L	AOH30L	AOH36L	AOH45L	AOH45LH	AOH54L
Rank (Cooling/Heating)			B / D	B / C	B / C	C / C	C / A	E / B	-	-	-
Capacity	Cooling	kW	3.50	4.30	5.20	7.10	8.50	10.00	12.50	12.50	14.00
			4.00	4.80	6.20	8.00	10.00	11.20	14.00	14.00	16.00
	Heating	BTU/h	11,950	14,700	17,800	24,200	29,000	34,100	42,700	42,700	47,800
			13,700	16,400	21,200	27,300	34,100	38,200	47,800	47,800	54,600
Moisture Removal		l/h	1.2	1.5	1.7	1.5	2.5	3.0	4.0	3.0	4.0
Room Air Circulation (High)		Inner	m ³ /h	580	780	800	1,490	2,200	2,200	2,290	3,500
				Outer	2,800	2,800	2,800	2,800	3,600	3,600	6,600
Input Power		V/ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Running Current		Cooling	A	5.1	6.0	7.4	11.1	13.0	17.9	19.5	23.6
				Heating	5.8	6.5	8.3	10.6	11.7	13.9	17.3
Power Consumption		Cooling	kW	1.15	1.37	1.70	2.53	2.96	4.08	4.45	5.36
				Heating	1.32	1.49	1.90	2.43	2.68	3.18	3.95
EER		Cooling	kW/kW	3.04	3.14	3.06	2.81	2.87	2.45	2.81	2.61
COP		Heating	kW/kW	3.03	3.21	3.26	3.29	3.73	3.52	3.54	3.40
Dimensions H x W x D		Inner	mm	217x953x595	217x953x595	217x953x595	270x1135x700	270x1135x700	270x1135x700	270x1135x700	400x1150x585
				kg(lbs)	25(55)	25(55)	25(55)	41(90)	43(95)	43(95)	45(99)
Net Weight		Outer	mm	650x830x320	650x830x320	650x830x320	650x830x320	835x900x330	835x900x330	1,295x900x330	1,290x900x330
				kg(lbs)	54(119)	54(119)	54(120)	54(120)	64(141)	64(141)	105(231)
Connection Method				Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare
Connection Pipe Size (Smallø/Largeø)		mm		6.35/9.52	6.35/9.52	6.35/12.70	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Max Pipe Length /Height Difference		m		25	25	25	25	50	50	70	70
				15	15	15	15	30	30	30	30
Permissible Range of Outdoor Temp.		Cooling	°C	0~43	0~43	0~43	0~43	-10~43	-10~43	-15~43	-15~43
				Heating	-10~24	-10~24	-10~24	-10~24	-10~24	-10~24	-15~24
Refrigerant				R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A

DUCT TYPE



Universal Type (With Weekly/Setback Timer)

- ARG7F**
C 2.15kW / 7,300BTU/h
- ARG9F**
C 2.80kW / 9,500BTU/h
- ARG7U**
C 2.15kW / 7,300BTU/h
H 2.45kW / 8,400BTU/h
- ARG9U**
C 2.70kW / 9,200BTU/h
H 3.10kW / 10,600BTU/h



Universal Type (With Weekly/Setback Timer)

- ARG12F**
C 3.50kW / 11,900BTU/h
- ARG14F**
C 4.20kW / 14,300BTU/h
- ARG18F**
C 5.40kW / 18,400BTU/h
- ARG12U**
C 3.50kW / 11,900BTU/h
H 4.00kW / 13,600BTU/h
- ARG14U**
C 4.00kW / 13,700BTU/h
H 4.70kW / 16,000BTU/h
- ARG18U**
C 5.40kW / 18,400BTU/h
H 6.00kW / 20,500BTU/h



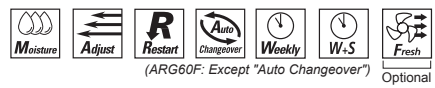
For ARG12F/12U/14F/14U For ARG18F/18U



Wired-Type (With Weekly/Setback Timer) For ARG25F/25U For ARG30F/30U For ARG36F/36U/36U(1)/45F/45U

- ARG25F**
C 7.05kW / 24,000BTU/h
- ARG30F**
C 8.40kW / 28,700BTU/h
- ARG36F**
C 10.50kW / 35,800BTU/h
- ARG45F**
C 12.70kW / 43,400BTU/h
- ARG25U**
C 7.00kW / 23,900BTU/h
H 7.70kW / 26,300BTU/h
- ARG30U**
C 8.40kW / 28,700BTU/h
H 9.50kW / 32,400BTU/h
- ARG36U**
C 10.50kW / 35,800BTU/h
H 12.70kW / 43,400BTU/h
- ARG36U(1)**
C 10.50kW / 35,800BTU/h
H 12.70kW / 43,400BTU/h
- ARG45U**
C 12.70kW / 43,400BTU/h
H 14.30kW / 48,800BTU/h

SPECIFICATIONS			DUCT TYPE										
Model No.	Indoor Unit		ARG7F	ARG7U	ARG9F	ARG9U	ARG12F	ARG12U	ARG14F	ARG14U	ARG18F	ARG18U	ARG25F
Item	Outdoor Unit		AOG7F	AOG7U	AOG9F	AOG9U	AOG12F	AOG12U	AOG14F	AOG14U	AOG18F	AOG18U	AOG25F
Rank (Cooling/Heating)			C / -	C / C	C / -	C / C	C / -	C / C	B / -	C / B	D / -	C / C	D / -
Capacity	Cooling	kW	2.15	2.15	2.80	2.70	3.50	3.50	4.20	4.00	5.40	5.40	7.05
		BTU/h	7,300	7,300	9,500	9,200	11,900	11,900	14,300	13,700	18,400	18,400	24,000
	Heating	kW	-	2.45	-	3.10	-	4.00	-	4.70	-	6.00	-
		BTU/h	-	8,400	-	10,600	-	13,600	-	16,000	-	20,500	-
Moisture Removal		l/h	0.8	0.8	1.0	1.0	1.2	1.2	1.5	1.5	1.6	1.6	2.5
Room Air Circulation (High)	Inner	m ³ /h	340	340	420	420	500	500	640	640	1,000	1,000	1,100
	Outer	m ³ /h	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	3,200	3,200	3,200
Input Power	V/ø/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Running Current	Cooling	A	3.7	3.6	4.6	4.4	5.5	5.5	6.3	6.3	9.0	8.8	11.5
	Heating	A	-	3.6	-	4.5	-	5.4	-	6.0	-	8.7	-
Power Consumption	Cooling	kW	0.76	0.76	0.99	0.96	1.24	1.24	1.39	1.42	2.03	1.92	2.60
	Heating	kW	-	0.76	-	0.96	-	1.21	-	1.35	-	1.87	-
EER	Cooling	kw/kW	2.83	2.83	2.83	2.81	2.82	2.82	3.02	2.82	2.66	2.81	2.71
COP	Heating	kw/kW	-	3.22	-	3.23	-	3.31	-	3.48	-	3.21	-
Dimensions H x W x D	Inner	mm	217x663x595	217x663x595	217x663x595	217x663x595	217x953x595	217x953x595	217x953x595	217x953x595	217x953x595	217x953x595	270x1,135x700
		kg(lbs)	18(40)	18(40)	18(40)	18(40)	25(55)	25(55)	25(55)	25(55)	25(55)	25(55)	43(95)
Net Weight	Outer	mm	530x750x250	530x750x250	530x750x250	530x750x250	530x750x250	530x750x250	530x750x250	530x750x250	650x830x320	650x830x320	650x830x320
		kg(lbs)	27(60)	28(62)	27(60)	30(66)	34(75)	34(75)	35(77)	35(77)	52(115)	52(115)	58(128)
Connection Method			Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare
Connection Pipe Size (Smallø/Largeø)	mm		6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70	6.35/12.70	6.35/15.88	6.35/15.88	9.52/15.88
Max Pipe Length /Height Difference	m		15	15	15	15	15	15	15	15	20	20	25
			8	8	8	8	8	8	8	8	8	8	15
Permissible Range of Outdoor Temp.	Cooling	°C	21~43	0~43	21~43	0~43	21 to 43	0~43	21~43	0~43	21~43	0~43	0~43
	Heating	°C	-	-6~24	-	-6~24	-	-6~24	-	-6~24	-	-6~24	-
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A



ARG60F
 C 16.50kW / 56,300BTU/h

ARG60U
 C 16.50kW / 56,300BTU/h
 H 19.50kW / 66,600BTU/h



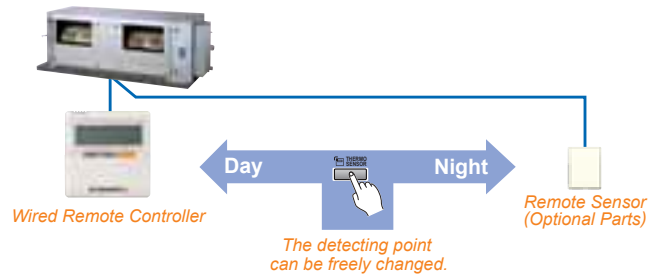
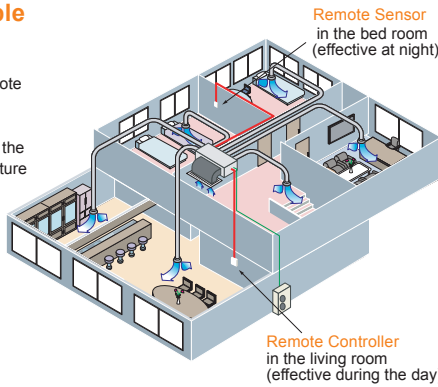
ARG90E
 C 25.40-25.40kW / 86,700-86,700BTU/h

ARG90T
 C 24.80-25.40kW / 84,700-86,700BTU/h
 H 28.90-29.50kW / 98,500-100,500BTU/h

Accurate and Comfortable

- New amenity space can be offered by installing the thermo sensor in the remote controller.
- Because the remote controller has the switching function, the user can select the position of the sensor. (Room temperature sensor selection)

Example of room temperature sensor selection



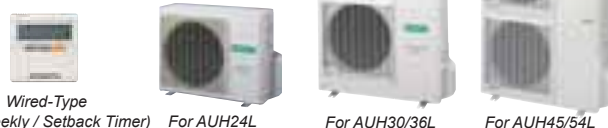
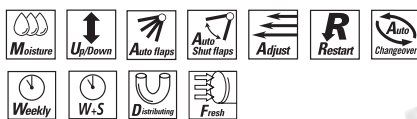
DUCT TYPE											
ARG25U	ARG30F	ARG30U	ARG36F	ARG36U(1)	ARG36U	ARG45F	ARG45U	ARG60F	ARG60U	ARG90E	ARG90T
AOG25U	AOG30F	AOG30U	AOG36F	AOG36U(1)	AOG36U	AOG45F	AOG45U	AOG60F	AOG60U	AOG90E	AOG90T
D / C	C / -	C / A	D / -	C / B	C / B	-	-	-	-	-	-
7.00	8.40	8.40	10.50	10.50	10.50	12.70	12.70	16.50	16.50	25.40~25.40	24.80~25.40
7.70	-	9.50	-	12.70	12.70	-	14.30	-	19.50	-	28.90~29.50
24,000	28,700	28,700	35,800	35,800	35,800	43,400	43,400	56,300	56,300	86,700~86,700	84,700~86,700
26,300	-	32,400	-	43,400	43,400	-	48,800	-	66,600	-	98,500~100,500
2.5	3.0	3.0	3.5	3.5	3.5	5.0	5.0	4.0	4.0	7.5	7.5
1,100	1,400	1,400	1,750	1,750	1,750	1,800	1,800	3,500	3,500	4,300	4,300
3,200	3,300	3,300	7,000	6,100	6,100	6,100	6,100	6,300	6,300	9,800	9,800
230/1/50	230/1/50	230/1/50	400/3/50	230/1/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	380~415/3/50	380~415/3/50
11.8	14.0	14.0	6.4	16.0	6.1	7.7	7.7	10.0	10.2	17.5~17.0	19.5~19.5
10.5	-	12.4	-	16.5	6.2	-	7.7	-	9.8	-	19.5~19.5
2.65	2.99	2.99	3.85	3.60	3.60	4.38	4.38	5.93	6.06	10.5~10.5	12.2~12.5
2.33	-	2.63	-	3.65	3.65	-	4.39	-	5.54	-	12.2~12.5
2.64	2.81	2.81	2.73	2.92	2.96	2.90	2.90	2.78	2.72	2.42~2.42	2.03~2.03
3.30	-	3.61	-	3.48	3.48	-	3.26	-	3.52	-	2.37~2.36
270x1,135x700	270x1,135x700	270x1,135x700	270x1,135x700	270x1,135x700	270x1,135x700	270x1,135x700	270x1,135x700	400x1150x585*	400x1150x585*	450x1,550x700	450x1,550x700
43(95)	43(95)	43(95)	43(95)	43(95)	43(95)	45(99)	45(99)	50(110)	50(110)	85(187)	85(187)
650x830x320	830x900x330	830x900x330	1,165x900x330	1,165x900x330	1,165x900x330	1,165x900x330	1,165x900x330	1,290x900x330	1,290x900x330	1,380x1,300x650	1,380x1,300x650
59(130)	69(152)	69(152)	80(176)	98(216)	94(207)	109(240)	113(249)	118(260)	118(260)	243(535)	245(539)
Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare(Small)/Flare(Large)	Flare(Small)/Flare(Large)
9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/19.05	9.52/19.05	9.52/19.05	9.52/19.05	12.70-28.58	12.70-28.58
25	30	30	50	50	50	50	50	50	50	50	50
15	15	15	30	30	30	30	30	30	30	30	30
0~43	0~43	0~43	0~43	0~43	0~43	0~43	0~43	0~43	0~43	0~52	0~46
-7~24	-	-7~24	-	-10~24	-10~24	-	-10~24	-	-10~24	-	-10~21
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R407C	R407C

* Including flange, control box, safety drain pan

INVERTER CASSETTE TYPE

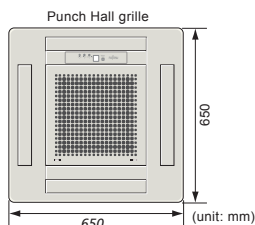


AUH12L	AUH14L	AUH18L
C 3.5kW / 11,950BTU/h H 4.0kW / 13,700BTU/h	C 4.0kW / 13,700BTU/h H 4.5kW / 15,700BTU/h	C 4.70kW / 16,000BTU/h H 4.80kW / 16,400BTU/h



AUH24L	AUH30L	AUH36L	AUH45L	AUH54L
C 7.10kW / 24,200BTU/h H 7.80kW / 26,600BTU/h	C 8.50kW / 29,000BTU/h H 10.0kW / 34,100BTU/h	C 10.0kW / 34,100BTU/h H 11.2kW / 38,200BTU/h	C 12.5kW / 42,700BTU/h H 14.0kW / 47,800BTU/h	C 13.3kW / 45,400BTU/h H 16.0kW / 54,600BTU/h

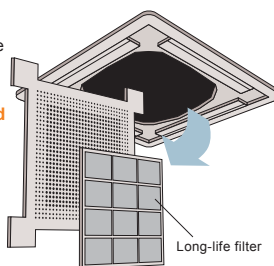
Compact size (AUH12/14/18L)
Compact grille fits European ceiling panel (650 x 650 mm).



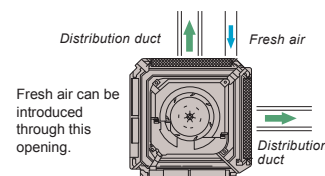
Easy maintenance (AUH24/30/36/45/54L)
The control box is easily accessible for maintenance work. Wide opening for easy access.

Detachable, washable filter and intake grille.
Wide opening and long-life filter.

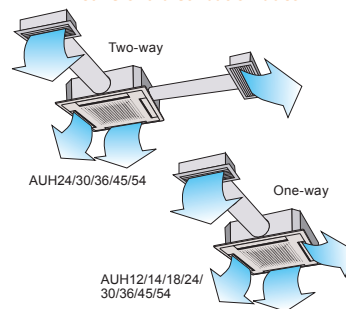
Long-life filter
High efficiency, long-life filter extends the cleaning cycle.



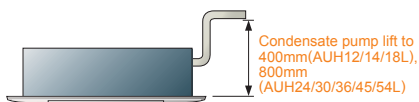
Duct connection hole opening



Conditioned air can be distributed by means of a distribution duct.



Condensate pump



Pursuance of amenity performance (AUH24/30/36/45/54L)
Various remote controllers and sensors can be selected.

- Wired Remote Controller with Thermo Sensor**
- Room temperature sensor selection
 - Temperature SET BACK timer
 - Group control system
 - Child lock
 - Dual remote controllers <optional>
 - Hot start <for heating>

SPECIFICATIONS			INVERTER CASSETTE TYPE												
Model No.	Indoor Unit		AUH12L	AUH14L	AUH18L	AUH24L	AUH30L	AUH36L	AUH45L	AUH54L					
Item	Outdoor Unit		AOH12L	AOH14L	AOH18L	AOH24L	AOH30L	AOH36L	AOH45L	AOH54L					
Rank (Cooling/Heating)			B / D	C / E	C / D	C / C	C / B	E / C	-	-					
Capacity	Cooling	kW	3.50	4.00	4.70	7.10	8.50	10.00	12.50	13.30					
			Heating	4.00	4.50	4.80	7.80	10.00	11.20	14.00	16.00				
	Cooling	BTU/h	11,950	13,700	16,000	24,200	29,000	34,100	42,700	45,400					
			Heating	13,700	15,700	16,400	26,600	34,100	38,200	48,000	54,600				
Moisture Removal		l/h	1.3	1.5	2.0	2.0	3.0	4.0	4.5	5.5					
Room Air Circulation (High)	Inner	m ³ /h	550	550	620	1,250	1,550	1,550	1,700	1,700					
	Outer		2,800	2,800	2,800	3,200	3,600	3,600	6,600	6,600					
Input Power		V/ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50					
Running Current	Cooling	A	5.1	6.0	7.2	11.1	12.5	17.6	19.5	23.8					
	Heating		6.1	7.2	7.5	10.5	12.4	15.2	17.3	21.6					
Power Consumption	Cooling	kW	1.16	1.36	1.65	2.53	2.86	4.00	4.45	5.54					
	Heating		1.40	1.65	1.71	2.40	2.84	3.49	3.95	4.95					
EER	Cooling	kW/kW	3.02	2.94	2.85	2.81	2.97	2.49	2.81	2.44					
COP	Heating		2.86	2.73	2.81	3.25	3.52	3.21	3.54	3.23					
Dimensions H x W x D	Inner	mm	235x580x580(+66)	235x580x580(+66)	235x580x580(+66)	246x830x830	296x830x830	296x830x830	296x830x830	296x830x830					
		kg(lbs)	18(40)	18(40)	18(40)	34(75)	37(82)	37(82)	40(88)	40(88)					
Net Weight	Outer	mm	650x830x320	650x830x320	650x830x320	650x830x320	830x900x330	830x900x330	1,290x900x330	1,290x900x330					
		kg(lbs)	58(128)	58(128)	54(119)	54(119)	64(141)	64(141)	105(231)	105(231)					
Connection Method			Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare					
Connection Pipe Size (Smallø/Largeø)		mm	6.35/9.52	6.35/9.52	6.35/12.70	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88					
Max Pipe Length /Height Difference	m		25	25	25	25	50	50	70	70					
			15	15	15	15	30	30	30	30					
Permissible Range of Outdoor Temp.	Cooling	°C	0~43	0~43	0~43	0~43	-10~43	-10~43	-15~43	-15~43					
	Heating		-10~24	-10~24	-10~24	-10~24	-10~24	-10~24	-15~24	-15~24					
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A					
Grille			UTG-UDYD-W	UTG-UDYD-W	UTG-UDYD-W	-	-	-	-	-					

CASSETTE TYPE



For AUG12F/12U/14F/14U For AUG18F/18U

- AUG12F**
C 3.60kW / 12,300BTU/h
- AUG14F**
C 4.10kW / 14,000BTU/h
- AUG18F**
C 5.00kW / 17,100BTU/h
- AUG12U**
C 3.55kW / 12,100BTU/h
H 4.00kW / 13,700BTU/h
- AUG14U**
C 3.95kW / 13,500BTU/h
H 4.60kW / 15,700BTU/h
- AUG18U**
C 4.85kW / 16,600BTU/h
H 5.40kW / 18,400BTU/h

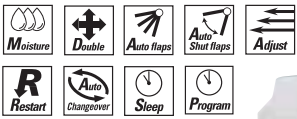


- AUG25F**
C 7.05kW / 24,100BTU/h
- AUG25F(3)**
C 7.05kW / 24,100BTU/h
- AUG30F**
C 8.40kW / 28,700BTU/h
- AUG36F**
C 10.50kW / 35,800BTU/h
- AUG45F**
C 12.70kW / 43,400BTU/h
- AUG54F**
C 14.50kW / 49,500BTU/h
- AUG25U**
C 7.00kW / 23,900BTU/h
H 7.80kW / 26,600BTU/h
- AUG30U**
C 8.40kW / 28,700BTU/h
H 9.50kW / 32,400BTU/h
- AUG36U**
C 10.50kW / 35,800BTU/h
H 11.80kW / 40,300BTU/h
- AUG45U**
C 12.70kW / 43,400BTU/h
H 14.30kW / 48,800BTU/h
- AUG54U**
C 14.50kW / 49,500BTU/h
H 16.50kW / 56,500BTU/h

SPECIFICATIONS			CASSETTE TYPE							
Model No.	Indoor Unit		AUG12F	AUG12U	AUG14F	AUG14U	AUG18F	AUG18U	AUG25F	AUG25U
Item	Outdoor Unit		AOG12F	AOG12U	AOG14F	AOG14U	AOG18F	AOG18U	AOG25F	AOG25U
Rank (Cooling/Heating)			C / -	C / C	C / -	C / C	D / -	D / E	D / -	D / C
Capacity	Cooling	kW	3.60	3.55	4.10	3.95	5.00	4.85	7.05	7.00
			Heating	-	4.00	-	4.60	-	5.40	-
	Cooling	BTU/h	12,300	12,100	14,000	13,500	17,100	16,600	24,100	23,900
			Heating	-	13,700	-	15,700	-	18,400	-
Moisture Removal	l/h		1.3	1.3	1.5	1.5	2.1	2.1	2.5	2.5
Room Air Circulation (High)	Inner	m ³ /h	550	550	550	550	620	620	1,100	1,100
	Outer		1,600	1,600	1,600	1,600	3,400	3,200	3,200	3,200
Input Power	V/ø/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Running Current	Cooling	A	5.5	5.5	6.3	6.3	8.5	8.2	11.5	11.8
	Heating		-	5.4	-	6.3	-	9.2	-	10.5
Power Consumption	Cooling	kW	1.24	1.24	1.39	1.40	1.90	1.85	2.60	2.65
	Heating		-	1.21	-	1.42	-	2.00	-	2.35
EER	Cooling	kW/kW	2.90	2.86	2.95	2.82	2.63	2.62	2.71	2.64
COP	Heating		-	3.31	-	3.24	-	2.70	-	3.32
Dimensions H x W x D	Inner	mm	235x580x580(+66)	235x580x580(+66)	235x580x580(+66)	235x580x580(+66)	235x580x580(+66)	235x580x580(+66)	246x830x830	246x830x830
	Outer		kg(lbs)	18(40)	18(40)	18(40)	18(40)	18(40)	18(40)	34(75)
Net Weight	Inner	mm	530x750x250	530x750x250	530x750x250	530x750x250	650x830x320	650x830x320	650x830x320	650x830x320
	Outer		kg(lbs)	34(75)	34(75)	35(77)	35(77)	52(115)	52(115)	58(128)
Connection Method			Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare
Connection Pipe Size (Small/Largeø)	mm		6.35/9.52	6.35/9.52	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7	9.52/15.88	9.52/15.88
Max Pipe Length /Height Difference	m		20	20	20	20	20	20	25	25
			8	8	8	8	8	8	15	15
Permissible Range of Outdoor Temp.	Cooling	°C	21~43	0~43	21~43	0~43	0~43	0~43	0~43	0~43
	Heating		-	-7~24	-	-7~24	-	-7~24	-	-7~24
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Grille			UTG-UDYD-W	UTG-UDYD-W	UTG-UDYD-W	UTG-UDYD-W	UTG-UDYD-W	UTG-UDYD-W	-	-

CASSETTE TYPE								
AUG25F(3)	AUG30F	AUG30U	AUG36F	AUG36U	AUG45F	AUG45U	AUG54F	AUG54U
AOG25F(3)	AOG30F	AOG30U	AOG36F	AOG36U	AOG45F	AOG45U	AOG54F	AOG54U
C	C / -	C / B	C / -	B / C	-	-	-	-
7.05	8.40	8.40	10.50	10.50	12.70	12.70	14.50	14.50
-	-	9.50	-	11.80	-	14.30	-	16.50
24,100	28,700	28,700	35,800	35,800	43,400	43,400	49,500	49,500
-	-	32,400	-	40,300	-	48,800	-	56,500
2.5	3.0	3.0	4.0	4.0	5.0	5.0	6.0	6.0
1,100	1,250	1,250	1,500	1,500	1,550	1,550	1,700	1,700
3,200	3,300	3,300	7,000	6,100	6,100	6,100	6,300	6,300
230/3/50	230/1/50	230/1/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
11.5	13.6	13.6	6.2	5.9	7.7	7.7	9.5	9.5
-	-	13.1	-	6.2	-	7.7	-	9.5
2.60	2.95	2.95	3.74	3.48	4.38	4.38	5.16	5.16
-	-	2.78	-	3.65	-	4.39	-	5.30
2.71	2.85	2.85	2.81	3.02	2.90	2.90	2.81	2.81
-	-	3.42	-	3.23	-	3.26	-	3.11
246x830x830	246x830x830	246x830x830	296x830x830	296x830x830	296x830x830	296x830x830	296x830x830	296x830x830
34(75)	34(75)	34(75)	37(82)	37(82)	40(88)	40(88)	40(88)	40(88)
650x830x320	830x900x330	830x900x330	1,165x900x330	1,165x900x330	1,165x900x330	1,165x900x330	1,290x900x330	1,290x900x330
58(128)	68(150)	69(152)	80(176)	94(207)	109(240)	113(249)	114(251)	118(260)
Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare
9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/19.05	9.52/19.05	9.52/19.05	9.52/19.05
25	30	30	50	50	50	50	50	50
15	15	15	30	30	30	30	30	30
0~43	0~43	0~43	0~43	0~43	0~43	0~43	0~43	0~43
-	-	-7~24	-	-10~24	-	-10~24	-	-10~24
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
-	-	-	-	-	-	-	-	-


FLOOR/CEILING UNIVERSAL TYPE



For ABH18L



For ABH24L

ABH18L 
 C 5.20kW / 17,800BTU/h
 H 6.20kW / 21,200BTU/h

ABH24L 
 C 6.50kW / 22,200BTU/h
 H 6.80kW / 23,200BTU/h

CEILING TYPE



For ABH30/36L



For ABH45L

ABH30L 
 C 8.50kW / 29,000BTU/h
 H 10.0kW / 34,100BTU/h

ABH36L 
 C 10.0kW / 34,100BTU/h
 H 10.8kW / 36,900BTU/h

ABH45L 
 C 12.5kW / 42,700BTU/h
 H 14.0kW / 47,800BTU/h

Ultra thin and wide air flow design for elegance and comfort (ABH30/36/45L)



Features of new outdoor unit

Low noise realized

Low noise realized by reducing the air flow resistance by fan shape (large metal plate integrated bell mouth) and system (external fan guard). Consideration is given to quieting of the living space of neighbors.

Improved installation and maintenance

Check joint standard equipment

Service port is provided at the high pressure side of the refrigerant circuit. The state of the product can be checked by connecting a pressure gauge, etc. and work efficiency at installation and maintenance is improved.

Improvement of handling performance during installation

The new outdoor unit is equipped with handles at the front and back at about the same height at the left and right so that the unit can be easily carried in during installation, etc.



ABH36F/U, 45F/U

SPECIFICATIONS			FLOOR / CEILING UNIVERSAL TYPE							
Model No.	Indoor Unit		ABH18L	ABH24L	ABG14F	ABG14U	ABG18F	ABG18U	ABG24F	ABG24U
Item	Outdoor Unit		AOH18L	AOH24L	AOG14F	AOG14U	AOG18F	AOG18U	AOG24F	AOG24U
Rank			B / C	B / B	B / -	C / B	C / -	B / C	D / -	D / C
Capacity	Cooling	kW	5.20	6.50	4.20	4.00	5.40	5.40	6.50	6.50
			6.20	6.80	-	4.70	-	6.00	-	7.40
	Heating	BTU/h	17,800	22,200	14,300	13,700	18,400	18,400	22,200	22,200
			21,200	23,200	-	16,000	-	20,500	-	25,300
Moisture Removal		l/h	1.7	2.5	1.5	1.5	2.0	2.0	2.5	2.5
Room Air Circulation (High)	Inner	m ³ /h	780	880	640	640	780	780	880	880
	Outer		2,800	3,320	1,600	1,600	3,200	3,200	3,200	3,200
Input Power		V/ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Running Current	Cooling	A	7.4	9.4	6.3	6.3	8.5	8.6	11.0	10.8
	Heating		8.3	8.7	-	6.0	-	8.3	-	10.3
Power Consumption	Cooling	kW	1.70	2.15	1.39	1.42	1.92	1.90	2.45	2.42
	Heating		1.90	1.99	-	1.35	-	1.85	-	2.30
EER	Cooling	kW/kW	3.06	3.02	3.02	2.82	2.81	2.84	2.65	2.69
COP	Heating		3.26	3.42	-	3.48	-	3.24	-	3.22
Dimensions H x W x D	Inner	mm	199x990x655	199x990x655	199x990x655	199x990x655	199x990x655	199x990x655	199x990x655	199x990x655
		kg(lbs)	28(62)	28(62)	28(62)	28(62)	28(62)	28(62)	28(62)	28(62)
Net Weight	Outer	mm	650x830x320	900x900x350	530x750x250	530x750x250	650x830x320	650x830x320	650x830x320	650x830x320
		kg(lbs)	54(119)	70(154)	35(77)	35(77)	47(104)	52(115)	58(128)	59(131)
Connection Method			Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare
Connection Pipe Size (Smallø/Largeø)		mm	6.35/12.70	9.52/15.88	6.35/12.70	6.35/12.70	6.35/15.88	6.35/15.88	9.52/15.88	9.52/15.88
Max Pipe Length /Height Difference	m		25	25	15	15	20	20	20	20
			15	15	8	8	8	8	8	8
Permissible Range of Outdoor Temp.	Cooling	°C	0~43	0~43	21~43	0~43	21~43	0~43	21~43	0~43
	Heating		-10~24	-10~24	-	-6~24	-	-6~24	-	-6~24
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A

FLOOR/CEILING UNIVERSAL TYPE



(ABG14/18/24F: Except "Auto Changeover")



For ABG14F/14U



For ABG18F/18U/24F/24U

ABG14F

Ⓢ 4.20kW / 14,300BTU/h

ABG18F

Ⓢ 5.40kW / 18,400BTU/h

ABG24F

Ⓢ 6.50kW / 22,200BTU/h

ABG14U

Ⓢ 4.00kW / 13,700BTU/h
Ⓜ 4.70kW / 16,000BTU/h

ABG18U

Ⓢ 5.40kW / 18,400BTU/h
Ⓜ 6.00kW / 20,500BTU/h

ABG24U

Ⓢ 6.50kW / 22,200BTU/h
Ⓜ 7.40kW / 25,300BTU/h

CEILING TYPE



(ABG30/36/45/54F: Except "Auto Changeover")



For ABG30F/30U



For ABG36F/36U/45F/45U



For ABG54F/54U

ABG30F

Ⓢ 8.40kW / 28,700BTU/h

ABG36F

Ⓢ 10.50kW / 35,800BTU/h

ABG45F

Ⓢ 12.70kW / 43,400BTU/h

ABG54F

Ⓢ 14.50kW / 49,500BTU/h

ABG30U

Ⓢ 8.40kW / 28,700BTU/h
Ⓜ 9.50kW / 32,400BTU/h

ABG36U

Ⓢ 10.50kW / 35,800BTU/h
Ⓜ 11.80kW / 40,300BTU/h

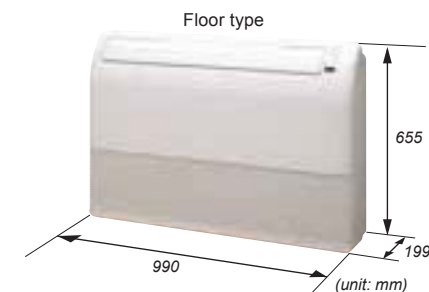
ABG45U

Ⓢ 12.70kW / 43,400BTU/h
Ⓜ 14.30kW / 48,800BTU/h

ABG54U

Ⓢ 14.50kW / 49,500BTU/h
Ⓜ 16.50kW / 56,300BTU/h

Slim & Compact design (ABG14F/14U/18F/18U/24F/24U)



Symmetrical, slim and compact design

Flexible installation (ABG14F/14U/18F/18U/24F/24U)



CEILING TYPE										
ABH30L	ABH36L	ABH45L	ABG30F	ABG30U	ABG36F	ABG36U	ABG45F	ABG45U	ABG54F	ABG54U
AOH30L	AOH36L	AOH45L	AOG30F	AOG30U	AOG36F	AOG36U	AOG45F	AOG45U	AOG54F	AOG54U
C / B	E / C	-	C / -	C / B	C / -	B / B	-	-	-	-
8.50	10.00	12.50	8.40	8.40	10.50	10.50	12.70	12.70	14.50	14.50
10.00	10.80	14.00	-	9.50	-	11.80	-	14.30	-	16.50
29,000	34,100	42,700	28,700	28,700	35,800	35,800	43,400	43,400	49,500	49,500
34,100	36,900	47,800	-	32,400	-	40,300	-	48,800	-	56,300
2.5	3.0	4.0	3.0	3.0	4.0	4.0	5.0	5.0	6.0	6.0
1,660	1,850	2,000	1,450	1,450	1,660	1,660	1,850	1,850	2,200	2,200
3,600	3,600	6,600	3,300	3,300	7,000	6,100	6,100	6,100	6,300	6,300
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
13.1	18.0	19.5	13.6	13.6	6.2	5.9	7.7	7.7	9.5	9.5
12.7	14.2	18.5	-	13.1	-	6.2	-	7.7	-	9.5
3.00	4.12	4.45	2.95	2.95	3.74	3.48	4.38	4.38	5.16	5.16
2.90	3.26	4.25	-	2.78	-	3.45	-	4.39	-	5.30
2.83	2.43	2.81	2.85	2.85	2.81	3.02	2.90	2.90	2.81	2.81
3.45	3.31	3.29	-	3.42	-	3.42	-	3.26	-	3.11
240x1,660x700	240x1,660x700	240x1,660x700	240x1,660x700	240x1,660x700	240x1,660x700	240x1,660x700	240x1,660x700	240x1,660x700	240x1,660x700	240x1,660x700
48(106)	48(106)	48(106)	48(106)	48(106)	48(106)	48(106)	48(106)	48(106)	48(106)	48(106)
830x900x330	830x900x330	1,290x900x330	830x900x330	830x900x330	1,165x900x330	1,165x900x330	1,165x900x330	1,165x900x330	1,290x900x330	1,290x900x330
64(141)	64(141)	105(231)	68(150)	69(152)	80(176)	94(207)	109(240)	113(249)	114(251)	118(260)
Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare
9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/19.05	9.52/19.05	9.52/19.05	9.52/19.05
50	50	70	30	30	50	50	50	50	50	50
30	30	30	15	15	30	30	30	30	30	30
-10~43	-10~43	-15~43	0~43	0~43	0~43	0~43	0~43	0~43	0~43	0~43
-10~24	-10~24	-15~24	-	-7~24	-	-10~24	-	-10~24	-	-10~24
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A

MULTI-TYPE SYSTEMS



2 ROOM



AOH20FSS (AUH12FMAB, ASH7FMDB)

- Unit A 3.50kW / 11,900BTU/h
- Unit B 2.50kW / 8,500BTU/h

AOH24FSS (ASH12FMDB, AUH12FMAB)

- Unit A 3.50kW / 11,900BTU/h
- Unit B 3.50kW / 11,900BTU/h

AOH20USU (AUH12UMAB, ASH7UMBD)

- Unit A 3.50kW / 11,900BTU/h
- Unit A 4.10kW / 14,000BTU/h
- Unit B 2.20kW / 7,500BTU/h
- Unit B 2.60kW / 8,900BTU/h

AOH24USU (ASH12UMBD, AUH12UMAB)

- Unit A 3.50kW / 11,900BTU/h
- Unit A 4.10kW / 14,000BTU/h
- Unit B 3.50kW / 11,900BTU/h
- Unit B 4.10kW / 14,000BTU/h

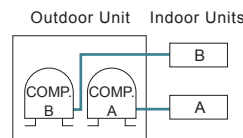


AOH20/24FSS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
AOH20/24USU	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

(Wall Mounted Type: Except "Program""Distributing""Fresh") (Compact cassette Type:Except"on-off""Washable")



2 ROOM



AOH19F (ASH9FMDB x2)

- 2.85kW / 9,700BTU/h

AOH20FSS (ASH12FMDB, ASH7FMDB)

- Unit A 3.50kW / 11,900BTU/h
- Unit B 2.50kW / 8,500BTU/h

AOH19U (ASH9UMBD x2)

- 2.80kW / 9,600BTU/h
- 3.25kW / 11,100BTU/h

AOH20USS (ASH12UMBD, ASH7UMBD)

- Unit A 3.50kW / 11,900BTU/h
- Unit A 4.10kW / 14,000BTU/h
- Unit B 2.20kW / 7,500BTU/h
- Unit B 2.60kW / 8,900BTU/h

AOH24FSS (ASH12FMDB x2)

- Unit A 3.50kW / 11,900BTU/h

AOH24USS (ASH12UMBD x2)

- 3.50kW / 11,900BTU/h
- 4.10kW / 14,000BTU/h

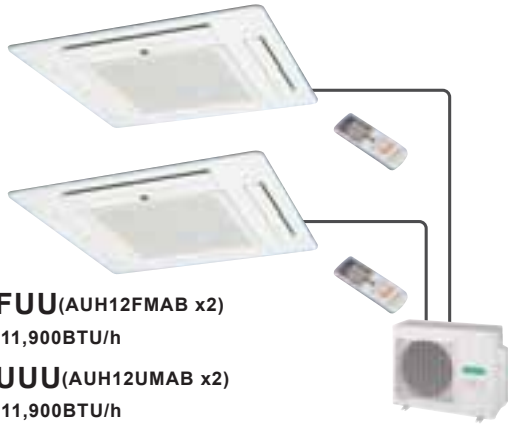


AOH19F/20/24FSS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
AOH19U/20/24USS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

SPECIFICATIONS

Model No.		MULTI-TYPE SYSTEMS											
		AOH19F		AOH19U		AOH20FSS		AOH20USS		AOH20FSS			
Item	Indoor Unit	ASH9FMDB	ASH9FMDB x2	ASH9UMBD	ASH9UMBD x2	ASH12FMDB	ASH12FMDB + ASH7FMDB	ASH12UMBD	ASH12UMBD + ASH7UMBD	AUH12FMAB	AUH12FMAB + ASH7FMDB		
	Outdoor Unit	AOH19FSCV2		AOH19USCV2		AOH20FSSB2		AOH20USB2		AOH20FSSB2		AOH20FSSB2	
Rank		*	B	*	B / B	*	B	*	C / D	*	B		
Capacity	Cooling	kW		2.85	5.70	2.80	5.60	3.50 , 2.40	6.00	3.50 , 2.20	5.70	3.50 , 2.40	6.00
		BTU/h		-	-	3.25	6.50	-	-	4.10 , 2.55	6.70	-	-
	Heating	BTU/h		9,700	19,500	9,600	22,200	11,900 , 8,200	20,500	11,900 , 7,500	19,500	11,900 , 8,200	20,500
		BTU/h		-	-	11,100	19,100	-	-	14,000 , 8,700	22,900	-	-
Moisture Removal		l/h		1.0	2.0	1.0	2.0	1.3 , 0.8	2.1	1.3 , 0.8	2.1	1.3 , 0.8	2.1
Room Air Circulation (High)	Inner	m³/h		520	520 x 2	470	470 x 2	520 , 440	520+440	520 , 420	520+420	550 , 440	550 + 440
	Outer	m³/h		3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200
Input Power		V/ø/Hz		230/1/50		230/1/50		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Running Current	Cooling	A		4.6	8.6	4.6	8.6	5.9 , 3.9	9.1	5.8 , 4.1	9.2	5.9 , 3.9	9.1
		A		-	-	4.6	8.6	-	-	6.1 , 4.3	9.7	-	-
Power Consumption	Cooling	kW		1.02	1.89	0.99	1.86	1.32 , 0.85	1.99	1.30 , 0.86	2.03	1.32 , 0.85	1.99
		kW		-	-	1.03	1.90	-	-	1.38 , 0.95	2.15	-	-
EER	Cooling	kW/kW		2.79	3.02	2.83	3.01	2.65 , 2.82	3.02	2.69 , 2.56	2.81	2.65 , 2.82	3.02
COP	Heating	kW/kW		-	-	3.16	3.42	-	-	-	3.12	-	-
Dimensions H x W x D	Inner	mm	257x808x187		257x808x187		257x808x187		257x808x187		[AUH12]	[ASH7]	
		kg(lbs)	8(18)		8(18)		8(18)		8(18)		235x580x580+70	257x808x187	
		mm	700x900x330		700x900x330		700x900x330		700x900x330		[AUH12]	[ASH7]	
Net Weight	Outer	mm	700x900x330		700x900x330		700x900x330		700x900x330		18(40)	8(18)	
		kg(lbs)	61(134)		63(139)		64(141)		66(146)		64(141)		
Connection Method		Flare		Flare		Flare		Flare		Flare			
Connection Pipe Size (Smallø/Largeø)	mm	6.35/9.52		6.35/9.52		6.35/9.52		6.35/9.52		6.35/9.52		6.35/9.52	
Max Pipe Length / Height Difference	m	15		15		15		15		15		15	
		8		8		8		8		8		8	
Permissible Range of Outdoor Temperature	Cooling	°C		18~43		10~43		18~43		10~43		18~43	
		°C		-		-5~24		-		-5~24		-	
Refrigerant		R410A		R410A		R410A		R410A		R410A		R410A	
Grille		-		-		-		-		-		UTG-UDGD-W	

2 ROOM



AOH24FUU (AUH12FMAB x2)

● 3.50kW / 11,900BTU/h

AOH24UUU (AUH12UMAB x2)

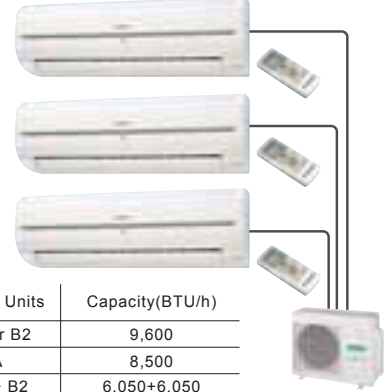
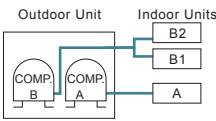
● 3.50kW / 11,900BTU/h

● 4.10kW / 14,000BTU/h



AOH24FUU	●	●	●	●	●	●	●	●	●	●	●	●	●	●
AOH24UUU	●	●	●	●	●	●	●	●	●	●	●	●	●	●

3 ROOM



Quantity of Used Indoor Units	Indoor Units	Capacity(BTU/h)
1	B1 or B2	9,600
	A	8,500
2	B1 + B2	6,050+6,050
	A + B1(B2)	8,500+9,600
3	A + B1 + B2	8,500+6,050+6,050

AOH20F(3) (ASH9FMBD)

Rank A

● Unit A 2.50kW / 8,500BTU/h

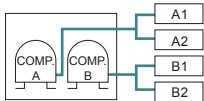
● Unit B1 2.80kW / 9,600BTU/h



Restart	Sleep	On-Off	Wash
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4 ROOM

Outdoor Unit Indoor Units



Quantity of Used Indoor Units	Indoor Units	Capacity(BTU/h)
1	A1 or A2 or B1 or B2	12,500
2	A1+A2 (B1+B2)	8,200x2
	A1(A2)+B1(B2)	12,500x2
3	A1+A2+B1(B2)	8,200x2+12,500
	A1(A2)+B1+B2	12,500+8,200x2
4	A1+A2+B1+B2	8,200x4

AOH32E(4) (ASH12EMB)

● 3.45-3.50kW / 11,800-11,900BTU/h



SPECIFICATIONS

Model No.	MULTI-TYPE SYSTEMS					
	AOH20F(3)		AOH32E(4)			
Item	Indoor Unit	ASH9FMBD	ASH9FMBD x 3	ASH12EMBCW	ASH12EMBCWx4	
Rank	Outdoor Unit	AOH20FSAV3		AOH32ESAM4		
Capacity	Cooling	kW	2.50, 2.80	6.05	3.45~3.50	
		BTU/h	8,500, 9,600	20,700	11,800~12,000	31,000~32,000
	Heating	kW	-	-	-	-
		BTU/h	-	-	-	-
Moisture Removal	l/h	0.8, 1.0	2.0	1.2	3.2	
Room Air Circulation (High)	Inner	520	520x3	500	500x4	
	Outer	3,200	3,200	5,900	5,900	
Input Power	V/ø/Hz	230/1/50		220-240/1/50		
Running Current	Cooling	A	4.0, 4.8	8.4	6.50~6.50	
	Heating	A	-	-	13.7~13.7	
Power Consumption	Cooling	kW	0.85, 1.05	1.88	1.35~1.43	
	Heating	kW	-	-	2.85~3.10	
EER	Cooling	kW/kW	2.94, 2.66	3.22	2.55~2.45	
COP	Heating	kW/kW	-	-	3.19~3.03	
Dimensions H x W x D	Inner	mm	257x808x187		260x815x175	
		kg(lbs)	8(18)		8(18)	
	Outer	mm	700x900x330		1152x940x370	
Net Weight	kg(lbs)	68(150)		101(223)		
	mm	6.35/9.52		6.35/12.70		
Connection Method		Flare		Flare		
Connection Pipe Size (Smallø/Largeø)	mm	15		25	30	
Max Pipe Length / Height Difference	m	8		8		
		18~43		18~43		
Permissible Range of Outdoor Temperature	Cooling	18~43		18~43		
	Heating	-		-		
Refrigerant		R410A		R407C		
Grille		-		-		

MULTI-TYPE SYSTEMS													
AOH20USU		AOH24FSS		AOH24USS		AOH24FSU		AOH24FUU		AOH24UUU			
AUH12UMAB, ASH7UMB	AUH12UMAB + ASH7UMB	ASH12FMBD	ASH12FMBD x 2	ASH12UMB	ASH12UMB x 2	ASH12FMBD, AUH12FMAB	ASH12FMBD + AUH12FMAB	ASH12UMB, AUH12UMAB	ASH12UMA + AUH12UMA	AUH12FMAB	AUH12FMABx2	AUH12UMAB	AUH12UMABx2
AOH20USBV2		AOH24FSBV2		AOH24USBV2		AOH24FSBV2		AOH24USBV2		AOH24FSBV2		AOH24USBV2	
*	C / D	*	C	*	D / C	*	C	*	D / C	*	C	*	D / C
3.50, 2.20	5.70	3.50	7.00	3.50	7.00	3.50, 3.50	7.00	3.50, 3.50	7.00	3.50	7.00	3.50	7.00
4.10, 2.55	6.70	-	-	4.10	8.20	-	-	4.10, 4.10	8.20	-	-	4.10	8.20
11,900, 7,500	19,500	11,900	23,900	11,900	23,900	11,900, 11,900	23,900	11,900, 11,900	23,900	11,900	23,900	11,900	23,900
14,000, 8,700	22,900	-	-	14,000	28,000	-	-	14,000, 14,000	28,000	-	-	14,000	28,000
1.3, 0.8	2.1	1.3	2.6	1.3	2.6	1.3, 1.3	2.6	1.3, 1.3	2.6	1.3	2.6	1.3	2.6
550, 420	550 + 420	520	520x2	520	520x2	520, 550	520 + 550	520, 550	520+550	550	550x2	550	550x2
3,200	3,200	3,200	3200	3,200	3200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50		230/1/50	
5.8, 4.1	9.2	5.9	11.2	5.8	11.2	5.9, 5.9	11.2	5.8, 5.8	11.2	5.9	11.2	5.8	11.2
6.1, 4.3	9.7	-	-	6.1	11.4	-	-	6.1, 6.1	11.4	-	-	6.1	11.4
1.30, 0.86	2.03	1.32	2.49	1.30	2.55	1.32, 1.32	2.49	1.30, 1.30	2.55	1.32	2.49	1.3	2.55
1.38, 0.95	2.15	-	-	1.38	2.55	-	-	1.38, 1.38	2.55	-	-	1.38	2.55
2.69, 2.56	2.81	2.65	2.81	2.69	2.75	2.65, 2.65	2.81	2.69, 2.69	2.75	2.65	2.81	2.69	2.75
2.97, 2.68	3.12	-	-	2.97	3.22	-	-	2.97, 2.97	3.22	-	-	2.97	3.22
[AUH12] 235x580x580+70	[ASH7] 257x808x187	257x808x187		257x808x187		[ASH12U] 257x808x187	[AUH12U] 235x580x580+70	[ASH12U] 257x808x187	[AUH12U] 235x580x580+70	235x580x580+70		235x580x580+70	
[AUH12] 18(40)	[ASH7] 8(18)	8(18)		8(18)		[ASH12U] 8(18)	[AUH12U] 18(40)	[ASH12U] 8(18)	[AUH12U] 18(40)	18(40)		18(40)	
700x900x330		700x900x330		700x900x330		700x900x330		700x900x330		700x900x330		700x900x330	
66(146)		68(150)		70(154)		68(150)		70(154)		68(150)		70(154)	
Flare		Flare		Flare		Flare		Flare		Flare		Flare	
6.35/9.52		6.35/9.52		6.35/9.52		6.35/9.52		6.35/9.52		6.35/9.52		6.35/9.52	
15		15		15		15		15		15		15	
8		8		8		8		8		8		8	
10~43		18~43		10~43		18~43		10~43		18~43		10~43	
-5~24		-		-5~24		-		-5~24		-		-5~24	
R410A		R410A		R410A		R410A		R410A		R410A		R410A	
-		-		-		-		-		-		-	
-		-		-		UTG-UDGD-W		UTG-UDGD-W		UTG-UDGD-W		UTG-UDGD-W	

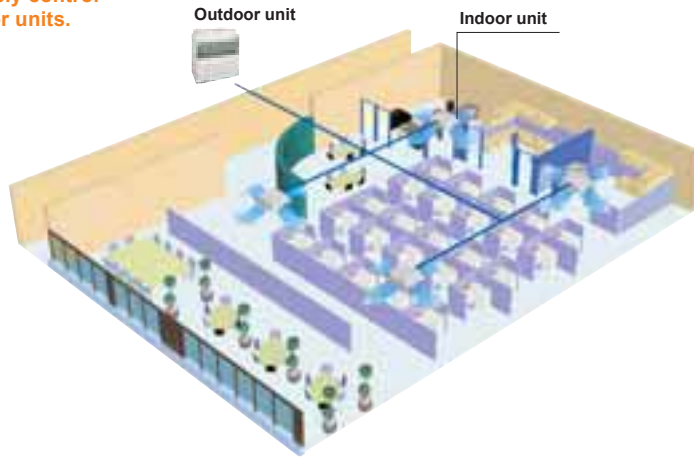
BIG MULTI TYPE SYSTEMS

Simultaneous Operation

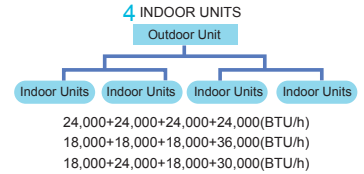
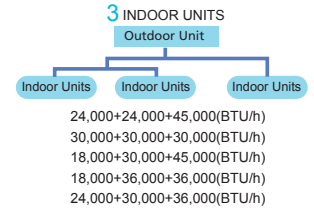
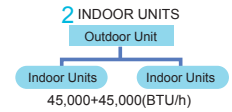
Features of System Operations

- Simultaneous Operating System suitable for large spaces such as offices, lobbies and waiting rooms of high-rise buildings.
- One controller can simultaneously control cooling or heating by 2-4 indoor units.

- Long piping for high-rise buildings
- Various combinations of indoor unit types and capacities
- Centralized control by wired remote controller with weekly timer
- Cooling & heating at low outdoor temperatures
- Space saving
- Easy installation

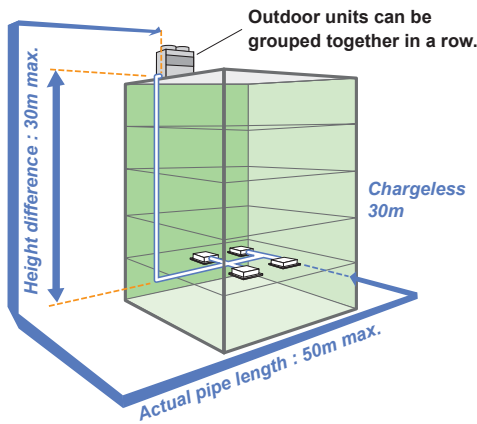


Indoor Unit Combinations

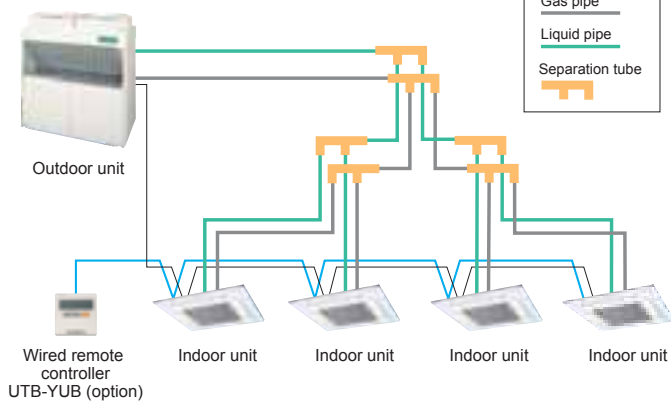


Indoor Unit Lineup

CAPACITY (BTU)	CASSETTE (COMPACT)	CASSETTE	DUCT	FLOOR/CEILING UNIVERSAL	CEILING(LARGE)
	45,000		•	•	
36,000		•	•		•
30,000		•	•		•
(25,000)		•	•		•
24,000		•	•	•	•
18,000	•			•	



Refrigerant System



SPECIFICATIONS

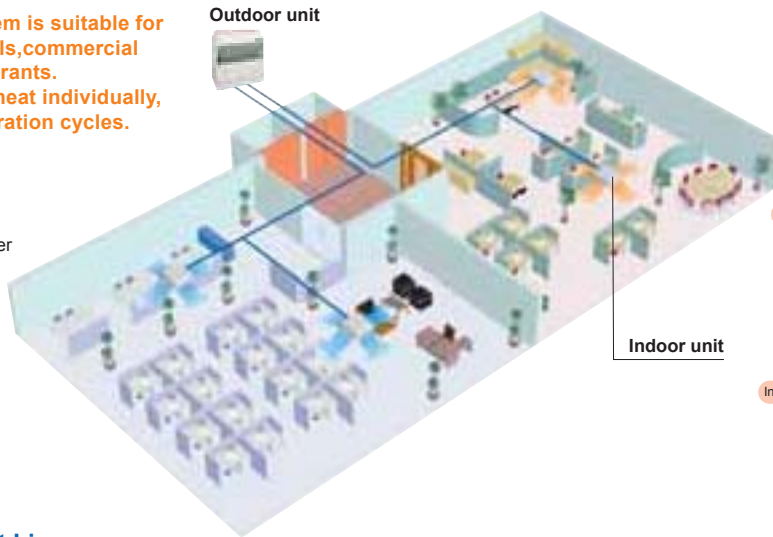
SPECIFICATIONS		BIG MULTI-TYPE SYSTEMS									
Item	Model No.	ABGA18TATA	ABGA24TATA	ABGA30TATA	ABGA36TATA	ABGA45TATA	ARXA25TATA	ARXA30TATA	ARXA36TATA	ARXA45TATA	
Input Power	V/ø/Hz	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	
Capacity	Cooling	kW	5.20~5.30	6.50~6.60	8.60~8.80	10.30~10.50	12.40~12.70	6.95~7.05	8.60~8.80	10.30~10.50	12.40~12.70
			Heating	5.50~5.60	7.60~7.70	8.80~9.10	10.50~10.70	13.40~13.70	7.60~7.85	8.80~9.10	10.50~10.70
	Cooling	BTU/h	17,800~18,100	22,200~22,500	29,400~30,000	35,200~36,000	42,500~43,500	23,700~24,100	29,400~30,000	35,200~36,000	42,500~43,500
			Heating	18,800~19,100	25,900~26,300	30,000~31,000	36,000~36,500	46,000~47,000	25,900~26,800	30,000~31,000	36,000~36,500
Moisture Removal	l/h	2.20	3.40	4.00	4.00	5.50	2.50	3.00	4.00	5.50	
Room Air Circulation	High	m ³ /h	800	900	1,270	1,660	1,850	1,600	1,650	2,000	2,200
	Med		680	780	1,120	1,500	1,660	1,450	1,550	1,800	2,000
	Low		560	660	860	1,270	1,430	1,280	1,350	1,600	1,800
Fan Motor Output	W	30	40	160	160	160	70	275	275	275	
Fan Type x Q'ty		Sirocco x 2	Sirocco x 2	Sirocco x 4	Sirocco x 4	Sirocco x 4	Sirocco x 2	Sirocco x 2	Sirocco x 2	Sirocco x 2	
Dimensions H x W x D	mm	199x990x655	199x990x655	240x1,660x700	240x1,660x700	240x1,660x700	270x1,210x700	270x1,210x700	270x1,210x700	270x1,210x700	
Net Weight	kg	28	30	48	48	48	43	43	45	45	
Connection Method		Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	
Connection Pipe Size (Smallø/Largeø)	mm	9.53/15.88	9.53/15.88	9.53/15.88	9.53/19.05	9.53/19.05	9.53/15.88	9.53/15.88	9.53/19.05	9.53/19.05	
Operation Range	Cooling	°C	18~30	18~30	18~30	18~30	18~30	18~30	18~30	18~30	
	Heating		16~30	16~30	16~30	16~30	16~30	16~30	16~30	16~30	
Grille		-	-	-	-	-	-	-	-	-	

Individual Operation

Features of System Operations

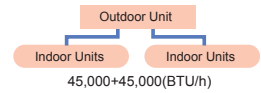
- Individual Operating System is suitable for large spaces such as hotels, commercial spaces, offices and restaurants.
- The system can cool and heat individually, because it has two refrigeration cycles.

- Two refrigeration cycles
- Various combinations of indoor unit types and capacities
- Centralized control by wired remote controller with weekly timer
- Cooling & heating at low outdoor temperatures
- Space saving
- Easy installation

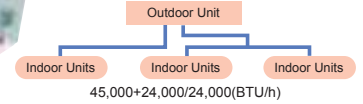


Indoor Unit Combinations

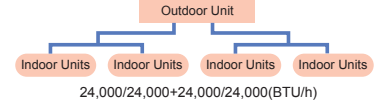
1 INDOOR UNIT + 1 INDOOR UNIT



1 INDOOR UNIT + 2 INDOOR UNITS

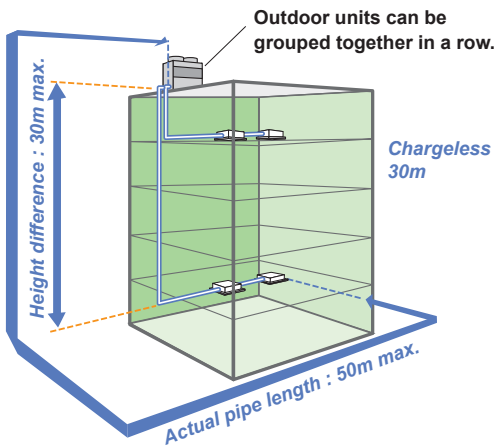


2 INDOOR UNITS + 2 INDOOR UNITS

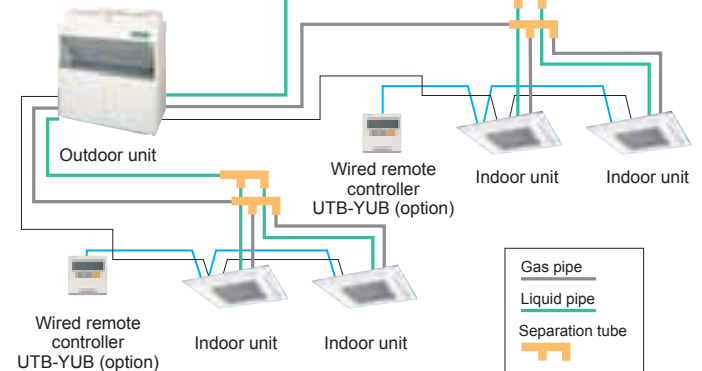


Indoor Unit Lineup

CAPACITY (BTU)	CASSETTE (COMPACT)	CASSETTE	DUCT	FLOOR/CEILING UNIVERSAL	CEILING(LARGE)
45,000	●	●	●	●	●
30,000	●	●	●	●	●
(25,000)	●	●	●	●	●
24,000	●	●	●	●	●
18,000	●	●	●	●	●

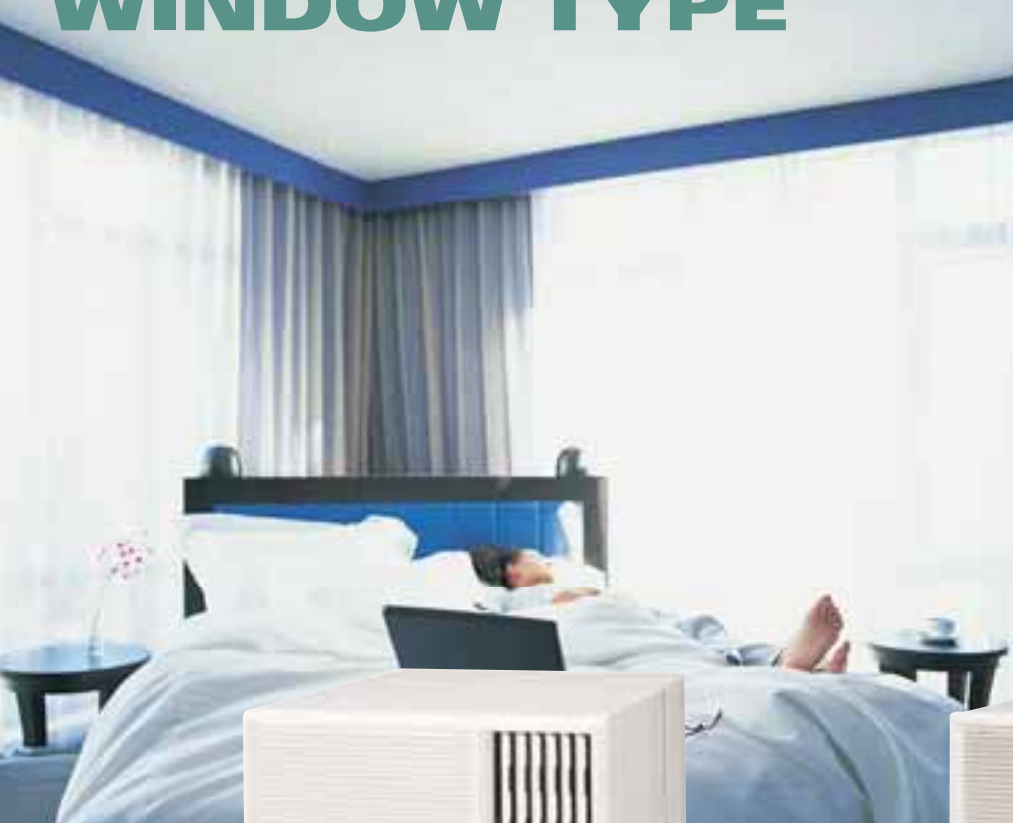


Refrigerant System



BIG MULTI-TYPE SYSTEMS				
AUXA18TATA	AUGA25TATA	AUGA30TATA	AUGA36TATA	AUGA45TATA
220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50
4.85~5.00	6.95~7.05	8.60~8.80	10.30~10.50	12.40~12.70
5.30~5.45	7.60~7.85	8.80~9.10	10.50~10.70	13.40~13.70
19,000~19,900	23,700~24,100	29,400~30,000	35,200~36,000	42,300~43,400
21,000~21,600	25,900~26,800	30,000~31,100	35,800~36,500	45,800~46,800
2.10	2.50	3.00	4.00	5.00
650	1,170	1,270	1,500	1,650
550	970	1,070	1,300	1,450
490	770	880	1,100	1,200
14	90	90	90	90
Turbo x 1	Turbo x 1	Turbo x 1	Turbo x 1	Turbo x 1
235x580x580(+70)	296x830x830	296x830x830	296x830x830	296x830x830
18	38	38	40	40
Flare	Flare	Flare	Flare	Flare
9.53/15.88	9.53/15.88	9.53/15.88	9.53/19.05	9.53/19.05
18~30	18~30	18~30	18~30	18~30
16~30	16~30	16~30	16~30	16~30
UTG-UDYD-W	-	-	-	-

SPECIFICATIONS			Individual Operation		Simultaneous Operation		
			Model No.	AJGA90EATA	AJGA90TATA	AJGA90EATB	AJGA90TATB
Power Requirement			V/ø/Hz	380~415/W4/50	380~415/W4/50	380~415/W4/50	380~415/W4/50
Total Capacity	Cooling	kW	25.40	25.40	25.40	25.40	
	Heating	kW	-	28.60	-	28.60	
Total Input Watts	Cooling	kW	9.40	9.40	9.40	9.40	
	Heating	kW	-	10.00	-	10.00	
Total Ampacity	Cooling	A	16.20	16.20	16.20	16.20	
	Heating	A	-	17.00	-	17.00	
Starting Current			A	63.00	63.00	63.00	63.00
EER	Cooling	W/W	2.70	2.70	2.70	2.70	
	Heating	W/W	-	2.86	-	2.86	
COP	High	r.p.m	730	730	730	730	
	Low	r.p.m	360	360	360	360	
Air Circulation			High	m³/h	9,800	9,800	9,800
Fan Type x Q'ty			Propellar x 2	Propellar x 2	Propellar x 2	Propellar x 2	
Fan Motor Output			W	150x2	150x2	150x2	150x2
Dimensions H x W x D			Net	mm	1,380x1,300x650	1,380x1,300x650	1,380x1,300x650
Weights			Net	kg(lbs)	243	245	243
Noise Level(Sound Pressure)			db(A)	57	57	57	57
Condition	Indoor Air Temp.	Cooling	DB/WB	27/19	27/19	27/19	27/19
		Heating	(°C)	20/(15)	20/(15)	20/(15)	20/(15)
	Outdoor Air Temp.	Cooling	DB/WB	35/24	35/24	35/24	35/24
		Heating	(°C)	7/6	7/6	7/6	7/6
Refrigerant			Type	R407C	R407C	R407C	R407C
Pipe	Charge		kg	3.1x2	3.1x2	6.00	6.00
	Size		mm	9.53/19.05	9.53/19.05	12.70/28.58	12.70/28.58
	Max Length		m	50	50	50	50
	Max Height		m	30	30	30	30
Max Chargeless Length			m	30	30	30	30
Operation(Outdoor)			Cooling	°C	0~52	0~52	0~52
			Heating	°C	-10~21	-10~21	-10~21



AKH7F

Ⓒ 2.15kW / 7,300BTU/h

AKH9F

Ⓒ 2.75kW / 9,400BTU/h

AKH9U

Ⓒ 2.80kW / 9,560BTU/h

Ⓓ 2.90kW / 9,900BTU/h



AMH12U

Ⓒ 3.45kW / 11,800BTU/h

Ⓓ 3.60kW / 12,300BTU/h

AMH13F

Ⓒ 3.55kW / 12,100BTU/h



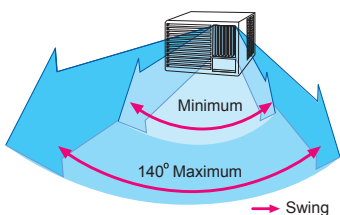
AFH16F

Ⓒ 4.65kW / 15,800BTU/h

AFH16U

Ⓒ 4.55kW / 15,500BTU/h

Ⓓ 4.30kW / 14,700BTU/h



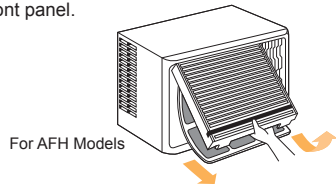
The air flow direction can be freely adjusted.

Unrestricted direction of air flow. The louver allows air flow coverage as wide as 140°.

Mounting the louver in the center provides coverage of an area as wide as 140°. Cold or warm air is distributed throughout the room.

Easy filter cleaning

The filter can be cleaned without removing the front panel.



SPECIFICATIONS			WINDOW TYPE						
Item	Model No.		AKH7F	AKH9F	AKH9U	AMH12U	AMH13F	AFH16F	AFH16U
Rank			C	C	C	D	D	C	D
Capacity	Cooling	kW	2.15	2.75	2.80	3.45	3.55	4.65	4.55
			Heating	-	-	2.90	3.60	-	-
	Cooling	BTU/h	7,300	9,400	9,560	11,800	12,100	15,800	15,500
			Heating	-	-	9,900	12,300	-	-
Moisture Removal		l/h	0.90	0.90	0.90	1.10	1.50	2.10	2.10
Room Air Circulation(High)	Inner	m ³ /h	345	365	350	530	490	620	620
Input Power		V/ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Running Current	Cooling	A	3.80	4.50	4.70	6.20	6.80	7.80	8.00
	Heating		-	-	4.20	5.80	-	-	7.20
Power Consumption	Cooling	kW	0.81	1.05	1.05	1.40	1.38	1.76	1.81
	Heating		-	-	0.93	1.30	-	-	1.62
EER	Cooling	kW/kW	2.65	2.62	2.67	2.46	2.57	2.64	2.51
COP	Heating		-	-	3.12	2.77	-	-	2.65
Dimensions H x W x D	Inner	mm	349x457x581	349x457x581	349x457x581	375x560x650	375x560x650	400x660x633	400x660x633
Net Weight		kg(bs)	30(66)	30(66)	33(73)	45(99)	43(95)	59(130)	61(134)
Permissible Range of Outdoor Temperature	Cooling	°C	21~43	21~43	21~43	21~43	21~43	21~43	21~43
	Heating		-	-	0~21	0~21	-	-	0~21
Feature	Super Power					●	●	●	●
	Super Quiet		●	●	●	●	●	●	●
	Super Wave		●	●	●	●	●	●	●
	Instant Air Exchange		●	●	●	●	●	●	●

Feature Summary

Double Swing Automatic Flaps
 Automatic Air Flow Adjustment
 Auto Shut Flaps
 Auto Changeover
 Sleep Timer
 ON-OFF timer
 Program Timer
 Weekly + setback timer
 Connectable Distributing Fresh Air Duct
 Washable Panel
 Fresh Air intake
 Long-life photocatalytic deodorizing filter
 Washabi antibacterial electrostatic filter
 Apple-catechin filter
 Economy Mode
 Filter Sign

		Moisture Removal	Automatic Flaps	Auto Shut Flaps	Auto Changeover	Sleep Timer	ON-OFF timer	Program Timer	Weekly + setback timer	Connectable Distributing Fresh Air Duct	Washable Panel	Fresh Air intake	Long-life photocatalytic deodorizing filter	Washabi antibacterial electrostatic filter	Apple-catechin filter	Economy Mode	Filter Sign
CEILING WALL	AWHZ14LB/18LB/24LB	●	●	●	●	●	●	●	●	●			●				
	AWG18FA/24FA	●	●	●	●	●	●	●	●	●					○	○	
	AWG18UA/24UA	●	●	●	●	●	●	●	●	●					○	○	
	AWG18FB/24FB/30FB	●	●	●	●	●	●	●	●	●					○	○	
	AWG14UB/18UB/24UB/30UB	●	●	●	●	●	●	●	●	●					○	○	
WALL MOUNTED	ASHB09LD/12LD/18LD	●	●	●	●	●	●	●	●	●			●				
	ASHB24LD	●	●	●	●	●	●	●	●	●			●				
	ASHA07LC/09LC/12LC	●	●	●	●	●	●	●	●	●			●	●		●	
	ASHA14LC/18LC	●	●	●	●	●	●	●	●	●			●	●		●	
	ASHA24LC/30LC	●	●	●	●	●	●	●	●	●			●	●		●	
	ASH9UB/12UB	●	●	●	●	●	●	●	●	●			●	○		○	
	ASH7FB/9FB/12FB	●	●	●	●	●	●	●	●	●			●	○	○	○	○
	ASH7UB/9UC/12UC	●	●	●	●	●	●	●	●	●			●	○	○	○	○
	ASH14FB	●	●	●	●	●	●	●	●	●			●	○		○	
	ASH14UB	●	●	●	●	●	●	●	●	●			●	○		○	
	ASG18FA	●	●	●	●	●	●	●	●	●					○	○	
	ASG18UA	●	●	●	●	●	●	●	●	●					○	○	
	ASG18FB/24FB/30FB	●	●	●	●	●	●	●	●	●					○	○	
	ASG18UB/24UB/30UB	●	●	●	●	●	●	●	●	●					○	○	
FLOOR	AGHV9LA/12LA/14LA	●	●	●	●	●	●	●	●	●			●		○	○	
FLOOR/CEILING UNIVERSAL	ABHA18L/24L	●	●	●	●	●	●	●	●	●	●		●				●
	ABH18L/24L	●	●	●	●	●	●	●	●	●							●
	ABG14F/18F/24F	●	●	●	●	●	●	●	●	●							
	ABG14U/18U/24U	●	●	●	●	●	●	●	●	●							
CEILING	ABHA36L/45L	●	●	●	●	●	●	●	●	●	●		●				●
	ABH30L/36L/45L	●	●	●	●	●	●	●	●	●			●				●
	ABG30F/36F/45F/54F	●	●	●	●	●	●	●	●	●							
	ABG30U/36U/45U/54U	●	●	●	●	●	●	●	●	●							
COMPACT CASSETTE	AUHA12L/14L	●	●	●	●	●	●	●	●	●	●		●				●
	AUHA18L/24L	●	●	●	●	●	●	●	●	●			●				●
	AUH12L/14L/18L	●	●	●	●	●	●	●	●	●			●				
	AUG12F/14F/18F	●	●	●	●	●	●	●	●	●			●				
	AUG12U/14U/18U	●	●	●	●	●	●	●	●	●			●				
CASSETTE	AUHA36L/45L	●	●	●	●	●	●	●	●	●	●		●				●
	AUH24L/30L/36L/45L/54L	●	●	●	●	●	●	●	●	●			●				
	AUG25F/25F(3)/30F/36F/45F/54F	●	●	●	●	●	●	●	●	●			●				
	AUG25U/30U/36U/45U/54U	●	●	●	●	●	●	●	●	●			●				
DUCT	ARHA12L/14L	●	●	●	●	●	●	●	●	●	●		●				●
	ARHA18L	●	●	●	●	●	●	●	●	●			●				●
	ARHA24L	●	●	●	●	●	●	●	●	●			●				●
	ARHA36L/45L	●	●	●	●	●	●	●	●	●			●				●
	ARH12L/14L/18L	●	●	●	●	●	●	●	●	●			○				
	ARH24L/30L/36L/45L	●	●	●	●	●	●	●	●	●			●				○
	ARH45LH/54L	●	●	●	●	●	●	●	●	●			●				○
	ARG7F/9F/12F/14F/18F	●	●	●	●	●	●	●	●	●			○				
	ARG7U/9U/12U/14U/18U	●	●	●	●	●	●	●	●	●			○				
	ARG25F/30F/36F/45F	●	●	●	●	●	●	●	●	●			●				○
	ARG25U/30U/36U/36U(1)/45U	●	●	●	●	●	●	●	●	●			●				○
	ARG60F	●	●	●	●	●	●	●	●	●			○				
	ARG60U	●	●	●	●	●	●	●	●	●			○				
ARG90E																	
ARG90T																	
INVERTER MULTI	AOH18LM2	ASH7LM/9LM/12LM	ASHA14LA/18LA	●	●	●	●	●	●	●	●		●	●		●	
	AOH24LM2	ASH18LB/24LB		●	●	●	●	●	●	●	●		●	●		●	
	AOHA18LAT3	AUH12LB/14LB/18LB		●	●	●	●	●	●	●	●		●	●			
	AOHA24LAT3	ABH14LB/18LB/24LB		●	●	●	●	●	●	●	●						
	AOH30LM4	ARH9LU/12LU/14LU/18LU/22LU		●	●	●	●	●	●	●	●		○				
MULTI	AOH19F	ASH9FMBD x 2		●	●	●	●	●	●	●	●				●		
	AOH20FSS	ASH12FMBD + 7FMBD		●	●	●	●	●	●	●	●				●		
	AOH20FSU	AUH12FMAB + ASH7FMBD		●	●	●	●	●	●	●	●	●/-	●/-		●/-	●/-	
	AOH24FSS	ASH12FMBD x 2		●	●	●	●	●	●	●	●				●		
	AOH24FSU	AUH12FMAB + ASH12FMBD		●	●	●	●	●	●	●	●	●/-	●/-		●/-	●/-	
	AOH24FUU	AUH12FMAB x 2		●	●	●	●	●	●	●	●				●		
	AOH20F(3)	ASH9FMBD x 3		●	●	●	●	●	●	●	●				●		
	AOH32E(4)	ASH12EMBCW x 4		●	●	●	●	●	●	●	●				●		
	AOH19U	ASH9UMBD x 2		●	●	●	●	●	●	●	●				●		
	AOH20USS	ASH12UMBD + 7UMBD		●	●	●	●	●	●	●	●				●		
	AOH20USU	AUH12UMAB + ASH7UMBD		●	●	●	●	●	●	●	●	●/-	●/-		●/-	●/-	
	AOH24USS	ASH12UMBD x 2		●	●	●	●	●	●	●	●				●		
	AOH24USU	AUH12UMBD + ASH12UMBD		●	●	●	●	●	●	●	●	●/-	●/-		●/-	●/-	
AOH24UUU	AUH12UMAB x 2		●	●	●	●	●	●	●	●				●			

Explanation of Features



Moisture Removal
The computer effectively dehumidifies the air.



Up/Down Swing Flaps
The up/down flaps automatically swing up and down.



Double Swing Automatic
Complex swing action of flaps enables automatically to swing both horizontal and vertical directions.



Automatic Flaps
The position of the flaps is set automatically to match the operating mode. It is also possible to adjust the flaps using the remote control.



Auto Shut Flaps
The auto shut flaps close or open automatically when the unit stops or starts.



Automatic Air Flow Adjustment
The micro-computer automatically adjusts the air flow effectively to follow the changes of room temperature.



Auto Restart
In the event of a temporary power failure, the air conditioner will automatically restart in the same operating mode as before, once the power supply is restored.



Auto-Changeover
The unit automatically switches between heating and cooling modes based on your temperature setting and the room temperature.



Sleep Timer
The micro-computer gradually changes the room temperature automatically to afford a comfortable night's sleep.



ON-OFF Timer
ON-OFF timer can be set to operate once.



Program Timer
This digital timer allows selection of one of four options: ON, OFF, ON→OFF or OFF→ON.



Weekly Timer
Different on-off times can be set for each day.



Weekly + Setback Timer
Weekly + Setback timer can set temperature for two times spans and for each day of the week.



Connectable Distributing Duct



Connectable Fresh Air Duct



Fresh Air Intake
Fresh air can be taken in by a fan which can be connected using external control unit.



Washable Panel



Long-life Ion Deodorization Filter
For details, see page7.



Long-life photocatalytic deodorizing filter



Apple-catechin Filter
For details, see page7.



Wasabi antibacterial electrostatic filter



Filter Sign
Indicates the filter cleaning period by lamp.



Economy Mode
Limits the maximum operation current, and performs operation with the power consumption suppressed.



Cooling



Heating



Rank A models



All DC inverter models



V-PAM models



I-PAM models



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ISO 14001 Certified number:09 104 9245
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ISO 9001 Certified number:09 100 79269
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