

 **GENERAL**



The Intelligent Choice in Comfort

SPLIT TYPE AIR CONDITIONERS

FUJITSU GENERAL LIMITED

Creation of Comfort



Fujitsu General creates high-quality and environmentally-friendly products that provide good comfort in accordance with our basic policy to a “create comfortable environment” by utilizing the air conditioning technology and creativity we have fostered over many years.




Contents


04	Compact Cassette
06	Cassette
10	Floor/Ceiling
12	Ceiling
14	Compact Duct
16	Duct
18	High Static Pressure Duct

INVERTER Compact Cassette

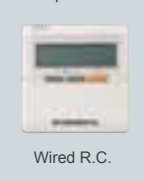
Powerful wide air flow & Quiet operation




Grille is an option



Wireless R.C.



Wired R.C.



Compact Outdoor Unit

Optional: V-PAM, Up/Down, Adjust, Restart, Changeover, Fresh, Fresh, Economy, Sleep, Program, W+S, Filter, Max. 3 (18/24)

Optional: Wired R.C.

CLASS A ALL DC AUHF12LA

CLASS A ALL DC AUHF14LA

CLASS A ALL DC AUHF18LB

CLASS A ALL DC AUHF24LB

2-stage turbo fan


High efficiency design by 2 stage structure

Wind velocity

Fast
Slow

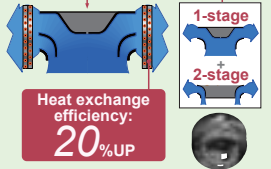
Previous turbo fan

In the case of a conventional fan, the air outlet range was narrow as the airflow moved to the motor side which meant the velocity of air passing through the heat exchanger was uneven.



2-stage turbo fan

A evenly spread air distribution across the heat exchanger is possible due to the new 2 stage turbo fan which produces two separate airflow streams.



Heat exchange efficiency: 20%UP

Quiet quality

Optimization of wing form (laminar wing type) and wing number (7 blades each)

Designed by CFD-analysis (fluid) simulations

Laminar wing

Airflow runs through smoothly along the laminar wing

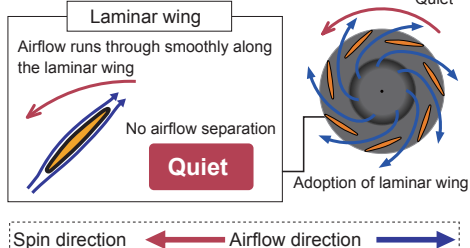
No airflow separation

Quiet

Adoption of laminar wing

Quiet

Spin direction ← Airflow direction →



Specifications

Model No.	Indoor unit		AUHF12LA	AUHF14LA	AUHF18LB	AUHF24LB
	Outdoor unit		AOHA12LA	AOHA14LA	AOHA18LA	AOHA24LA
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	3.50	4.30	5.20	7.10
	Heating		4.10	5.00	6.00	8.00
Input Power	Cooling/Heating	kW	1.05/1.11	1.33/1.34	1.62/1.66	2.21/2.21
EER - Energy Class	Cooling	W/W	3.33-A	3.21-A	3.21-A	3.21-A
COP - Energy Class	Heating		3.69-A	3.71-A	3.61-A	3.61-A
Running Current	Cooling/Heating	A	4.6/4.9	5.8/5.9	7.1/7.3	9.7/9.7
Moisture Removal		l/h	1.2	1.5	2.2	2.7
Noise (Indoor)	Cooling H/M/L/Q	dB(A)	37/34/30/27	38/34/30/27	38/34/30/26	49/44/36/30
Noise (Outdoor)	Cooling		47	49	50	52
Airflow Rate (High)	Indoor/Outdoor	m ³ /h	600/1780	680/1910	680/2000	930/2470
Net Dimension H x W x D	Indoor / Grille	mm	245×570×570/ 50×700×700	245×570×570/ 50×700×700	245×570×570/ 50×700×700	245×570×570/ 50×700×700
		kg(lbs)	15(33)/2.6(6)	15(33)/2.6(6)	15(33)/2.6(6)	17(37)/2.6(6)
	Outdoor	mm	578×790×300	578×790×300	578×790×300	578×790×315
		kg(lbs)	40(88)	40(88)	40(88)	44(97)
Piping Connections (Small / Large)		mm	6.35/9.52	6.35/12.70	6.35/12.70	6.35/15.88
Drain Pipe Diameter (Inner/Outer)		mm	19.4/25.4	19.4/25.4	19.4/25.4	19.4/25.4
Max Pipe Length (Chargeless)		m	25	25	25	30
Height Difference			15	15	15	20
Operation Range	Cooling	°CDB	-10~46	-10~46	-10~46	-10~46
	Heating		-15~24	-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A	R410A
Grille			UTG-UFYB-W	UTG-UFYB-W	UTG-UFYB-W	UTG-UFYB-W

Easy maintenance

1 Maintenance of fan motor and fan

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

A : Fan motor B : 2-stage turbo fan
C : Bell-mouth D : Panel



2 Long life filter

: standard equipment

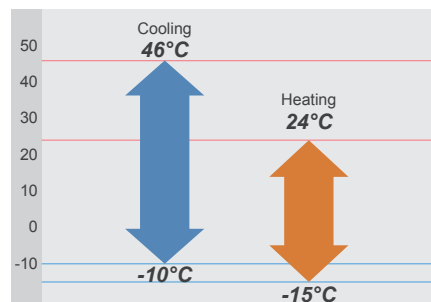
3 Adaptation of transparent drainage parts

During installation, maintenance and operation, the drain pump and kit can be checked easily.

High lift drain pump

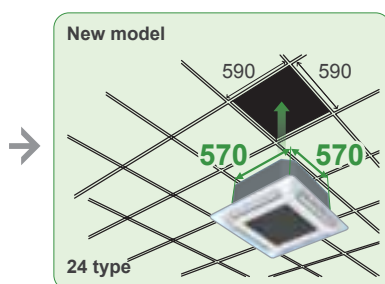
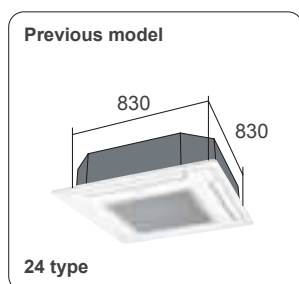


Low ambient operation



Compact design

World's first 24,000Btu model in the compact cassette category
(Easy installation by taking off ceiling panel of 600 x 600 size)



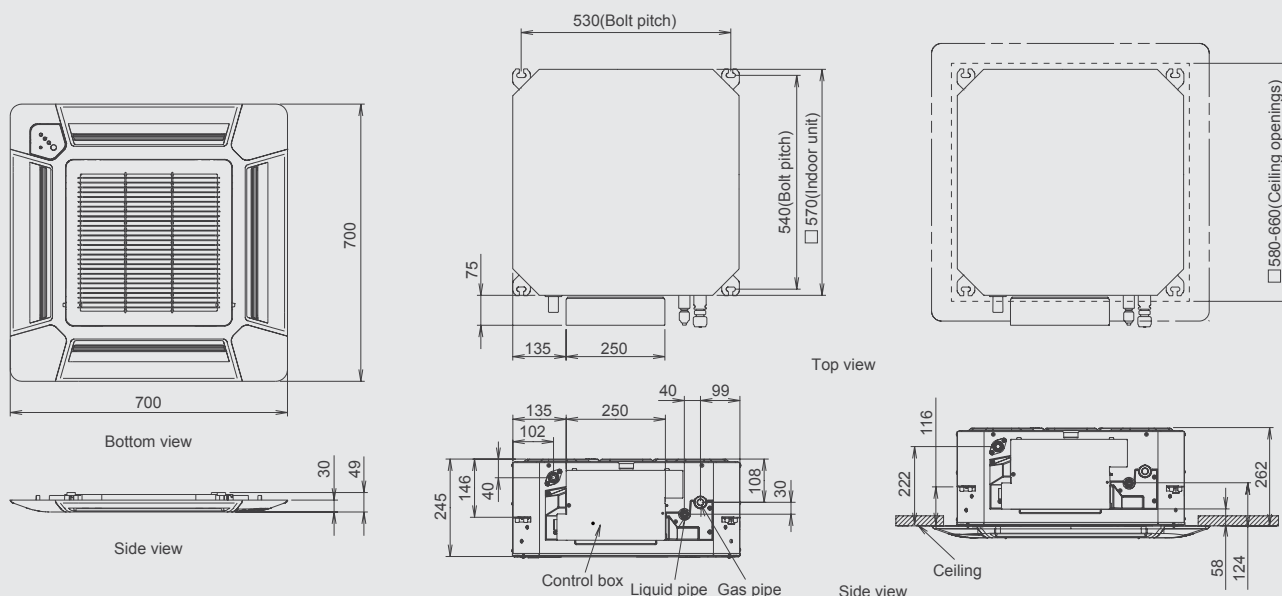
Optional parts

Air Outlet Shutter Plate:	UTR-YDZB
Wired Remote Controller:	UTB-GUD
Insulation Kit For High Humidity:	UTZ-KXGC
External Indication Kit:	UTY-XWZX
External Control Set:	UTD-ECS5A
Fresh Air Intake Kit:	UTY-VXAA

Dimensions

Models: AUHF12LA / AUHF14LA / AUHF18LB / AUHF24LB

(Unit : mm)



INVERTER Cassette

Powerful wide air flow & Quiet operation

Grille is an option

Wired R.C.

Optional

IR Receiver Kit

For AUHA30/36LB

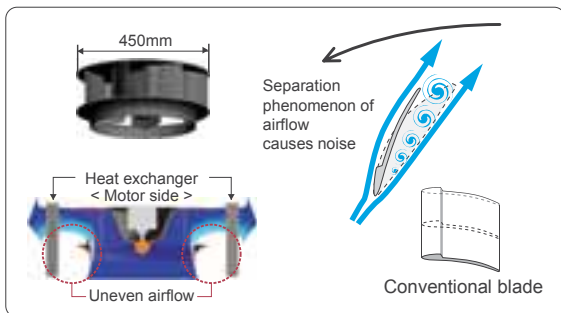
For AUHA45LC (For single phase)

For AUHA36/45/54LC (For 3 phase)

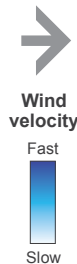
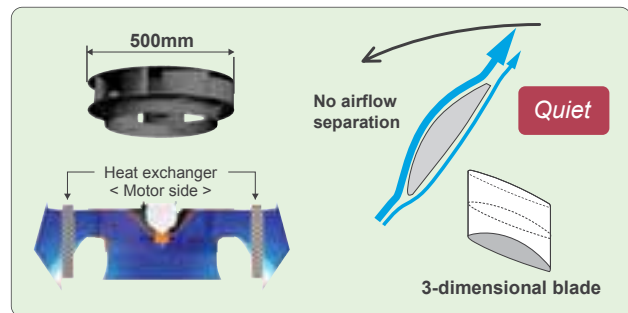
CLASS A ALL DC	CLASS A ALL DC	CLASS A ALL DC	CLASS A ALL DC
AUHA30LB	AUHA36LB AUHA36LC	AUHA45LC	AUHA54LC

High efficiency turbo fan with 3-dimensional blade

Previous turbo fan: Air passing through the heat exchanger was uneven and the air would only flow close to the ceiling.



New turbo fan: High efficiency airflow distribution has been achieved by the introduction of a 3 dimensional blade which increases the air passing over the heat exchanger.



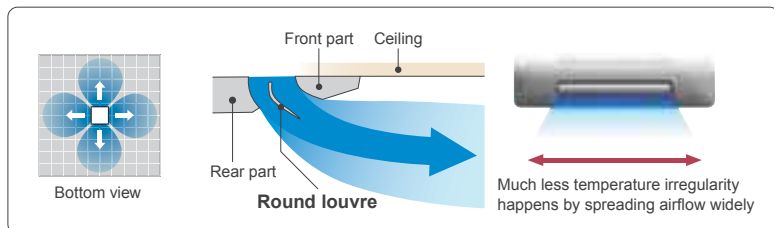
← : Spin direction → : Airflow direction ••••• : Turbulent flow noise

Specifications

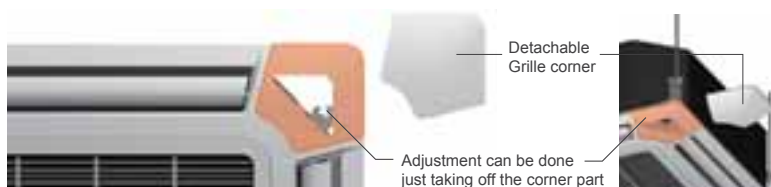
Model No.	Indoor unit		AUHA30LB	AUHA36LB	AUHA36LC	AUHA45LC	AUHA45LC	AUHA54LC
	Outdoor unit		AOHA30LF	AOHA36LF	AOHD36LA	AOHA45LB	AOHD45LA	AOHD54LA
Power Source	V/∅/Hz		230/1/50	230/1/50	400/3/50	230/1/50	400/3/50	400/3/50
Capacity	Cooling	kW	8.50	10.00	10.00	12.50	12.50	14.00
	Heating	kW	10.00	11.20	11.20	14.00	14.00	16.00
Input Power	Cooling/Heating	kW	2.65/2.77	3.12/3.02	2.44/2.56	3.89/3.77	3.54/3.58	4.36/4.43
EER - Energy Class	Cooling	W/W	3.21-A	3.21-A	4.10-A	3.21-A	3.53-A	3.21-A
COP - Energy Class	Heating	W/W	3.61-A	3.71-A	4.38-A	3.71-A	3.91-A	3.61-A
Running Current	Cooling/Heating	A	11.6/12.2	13.7/13.3	3.7/3.9	17.0/16.5	5.3/5.3	6.5/6.6
Moisture Removal		l/h	2.5	3.5	3.0	5.0	4.5	5.0
Noise (Indoor)	Cooling H/M/L/Q	dB(A)	40/38/36/32	43/38/36/32	44/39/36/33	46/42/40/36	46/42/40/36	47/43/41/37
Noise (Outdoor)	Cooling		53	54	51	55	54	55
Airflow Rate (High)	Indoor / Outdoor	m³/h	1600/3600	1800/3800	1800/6200	1900/6600	1900/6900	2000/6900
Net Dimension H x W x D	Indoor / Grille	mm	288x840x840 50x950x950	288x840x840 50x950x950	288x840x840 50x950x950	288x840x840/ 50x950x950	288x840x840 50x950x950	288x840x840 50x950x950
		kg(lbs)	26(57)/5.5(12)	26(57)/5.5(12)	27(60)/5.5(12)	27(60)/5.5(12)	27(60)/5.5(12)	27(60)/5.5(12)
	Outdoor	mm	830x900x330	830x900x330	1290x900x330	1290x900x330	1290x900x330	1290x900x330
		kg(lbs)	61(135)	61(135)	107(236)	98(216)	107(236)	107(236)
Piping Connections (Small / Large)		mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain Pipe Diameter (Inner/Outer)		mm	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0
Max Pipe Length (Chargeless)		m	50	50	75	50	75	75
Height Difference			30	30	30	30	30	30
Operation Range	Cooling	°CDB	-15~46	-15~46	-15~46	-15~46	-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-UGYA-W	UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W

Improvement of the airflow distribution

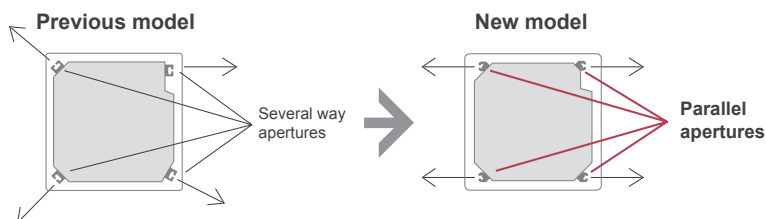
New louvre: The louvre design distributes air leaving a space between the chassis and the ceiling allowing far and wide air flow distribution.



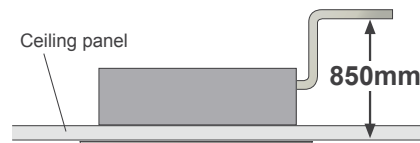
Adjustment of hanger position is possible after installation



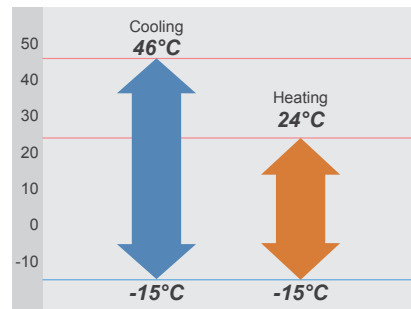
One way aperture installation



High lift drain pump



Low ambient operation



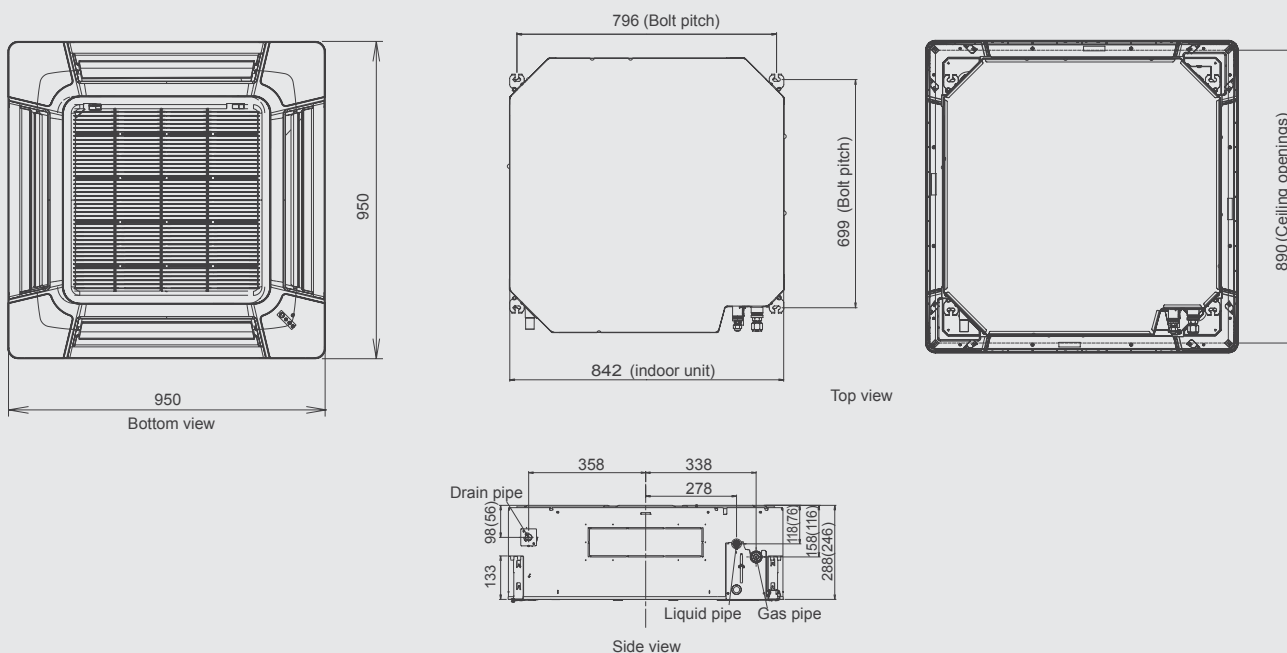
Optional parts

IR Receiver Kit:	UTY-LRHGA1
Wide Panel:	UTG-AGYA-W
Panel Spacer:	UTG-BGYA-W
Air Outlet Shutter Plate:	UTR-YDZC
Insulation Kit For High Humidity:	UTZ-KXGA
External Indication Kit:	UTY-XWZX
	UTY-XWZXZ2
External Control Set:	UTD-ECS5A
Fresh Air Intake Kit:	UTY-VXGA

Dimensions

Models: AUHA30LB / AUHA36LB / AUHA36LC / AUHA45LC / AUHA54LC

(Unit : mm)



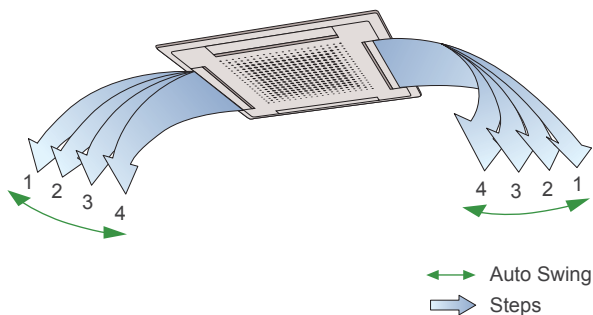
INVERTER Cassette



Comfortable airflow

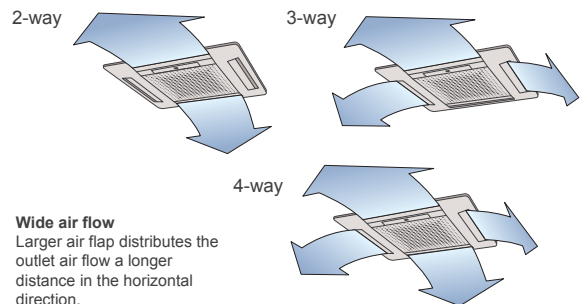
4 step swing

Auto air flow direction and auto swing



2-4 way air flow system

Select 2-way, 3-way or 4-way air flow to suit your needs.

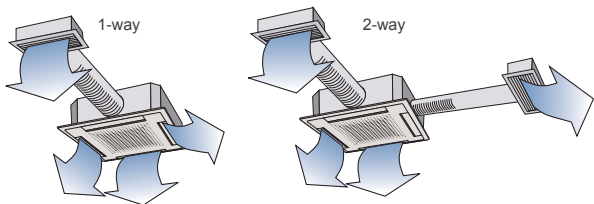


Specifications

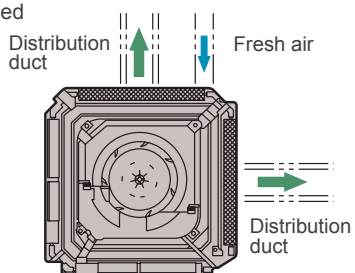
Model No.	Indoor unit		AUHA45LA	AUH54LU
	Outdoor unit		AOHA45LA	AOH54LU
Power Source	V/Ø/Hz		230/1/50	230/1/50
Capacity	Cooling	kW	12.50	13.30
	Heating		14.00	16.00
Input Power	Cooling/Heating	kW	3.89/3.77	5.45/4.95
EER - Energy Class	Cooling	W/W	3.21-A	2.44
COP - Energy Class	Heating		3.71-A	3.23
Running Current	Cooling/Heating	A	17.0/16.5	23.8/21.6
Moisture Removal		l/h	4.5	5.5
Noise (Indoor)	Cooling H/M/L/Q	dB(A)	52/47/42/39	50/48/45/-
Noise (Outdoor)	Cooling		55	54
Airflow Rate (High)	Indoor/Outdoor	m³/h	1750/6600	1700/6600
Net Dimension H x W x D	Indoor	mm	296x830x830	296x830x830
		kg(lbs)	32(70)/7(16)	33(72)/7(16)
	Outdoor	mm	1290x900x330	1290x900x330
		kg(lbs)	98(216)	105(231)
Piping Connections (Small / Large)		mm	9.52/15.88	9.52/15.88
Drain Pipe Diameter (Inner/Outer)		mm	32.0/37.0	32.0/37.0
Max Pipe Length (Chargeless)		m	50	70
			30	30
Operation Range	Cooling	°CDB	-15~46	-15~43
	Heating		-15~24	-15~24
Refrigerant			R410A	R410A

Duct connection hole opening

Conditioned air can be distributed by means of a distribution duct



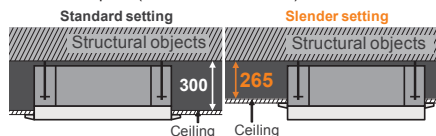
Fresh air can be introduced through this opening



Flexible installation

Installation is done by "Standard setting" with more than 300mm of space. "Slender setting" lets it suitable for minimum 265mm installation space.

Installation Space (Built-in measurement)



Easy installation (For 45LA)

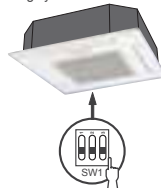
Main work settings can be done easily from the remote controller at installation

Main work settings

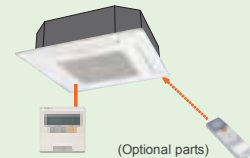
- High ceiling setting
- Auto restart
- Temperature adjustment when cooling / heating

Conventional type

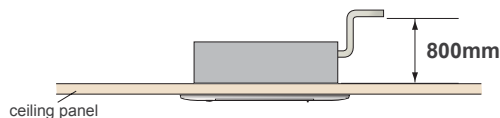
Setting by DIP switch inside control box



Setting by wireless or wired remote controller



Condensate pump lift to 800mm



Optional parts

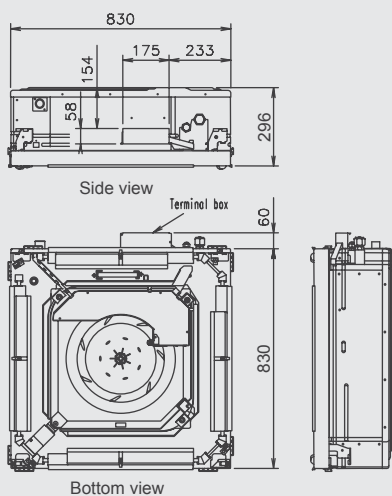
Wireless Remote Controller: UTB-GNA (for 45LA)

Additional Grille: UTG-AGEA-W

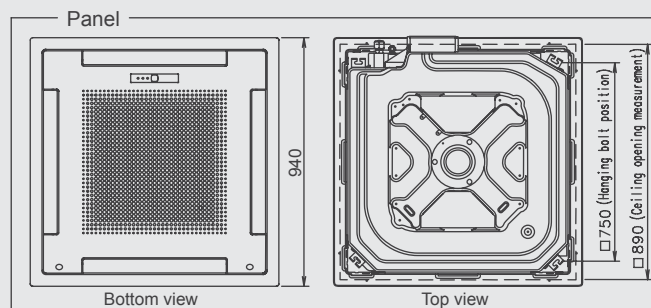
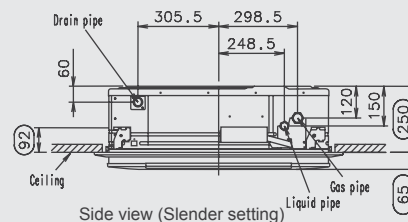
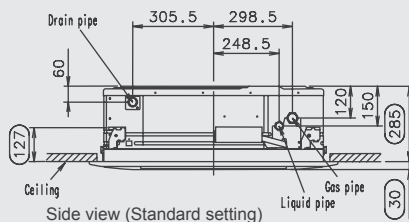
Dimensions

Models: AUHA45LA / AUH54LU

(Unit : mm)



Selection of setting



INVERTER

Floor/Ceiling Universal

V-PAM **Double** **Adjust** **R Restart** **Auto Changeover** **Fresh** **Fresh** **Economy** **Sleep** **Program** **W+S** **Filter** **Max. 3**

Optional

Wired R.C. Optional

Wireless R.C.

Optional

Wired R.C.

CLASS A ALL DC **CLASS A ALL DC**
ABHF18LB **ABHF24LB**

Flexible installation

Example for floor installation

Floor console



Example for ceiling installation

Under ceiling

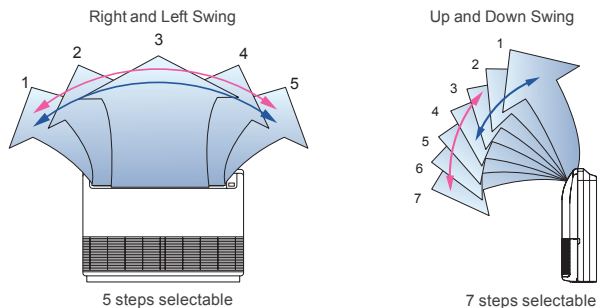


Specifications

Model No.	Indoor unit		ABHF18LB	ABHF24LB
	Outdoor unit		AOHA18LA	AOHA24LA
Power Source	V/Ø/Hz		230/1/50	230/1/50
Capacity	Cooling	kW	5.20	7.10
	Heating		6.00	8.00
Input Power	Cooling/Heating	kW	1.62/1.66	2.21/2.21
EER - Energy Class	Cooling	W/W	3.21-A	3.21-A
COP - Energy Class	Heating		3.61-A	3.61-A
Running Current	Cooling/Heating	A	7.1/7.3	9.7/9.7
Moisture Removal		l/h	2.0	2.7
Noise (Indoor)	Cooling	H/M/L/Q	43/40/34/31	48/44/40/35
Noise (Outdoor)	Cooling		50	52
Airflow Rate (High)	Indoor/Outdoor	m ³ /h	780/2000	980/2470
Net Dimension H x W x D	Indoor	mm	199x990x655	199x990x655
		kg(lbs)	27(60)	27(60)
	Outdoor	mm	578x790x300	578x790x315
		kg(lbs)	40(88)	44(97)
Piping Connections (Small / Large)		mm	6.35/12.70	6.35/15.88
Drain Pipe Diameter (Inner/Outer)		mm	21.5/26.0	21.5/26.0
Max Pipe Length (Chargeless)		m	25	30
Height Difference			15	20
Operation Range	Cooling	°CDB	-10~46	-10~46
	Heating		-15~24	-15~24
Refrigerant			R410A	R410A

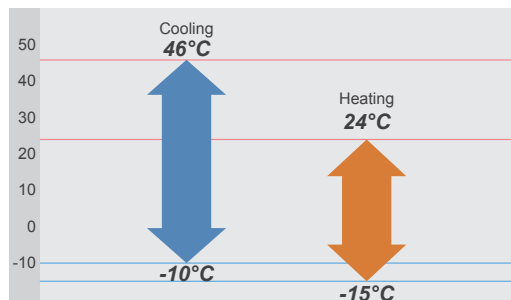
Double auto swing

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



⇒ Steps
 → Swing: Cooling, Dry and Fan mode
 → Swing: Heating and Fan mode

Low ambient operation

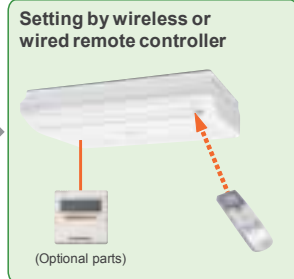
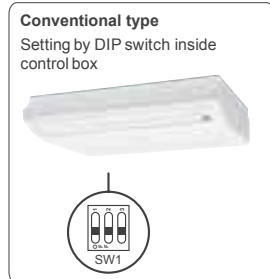


Easy installation

Main work settings can be done easily from the remote controller at installation

Main work settings

- High ceiling setting
- Auto restart
- Temperature adjustment when cooling / heating

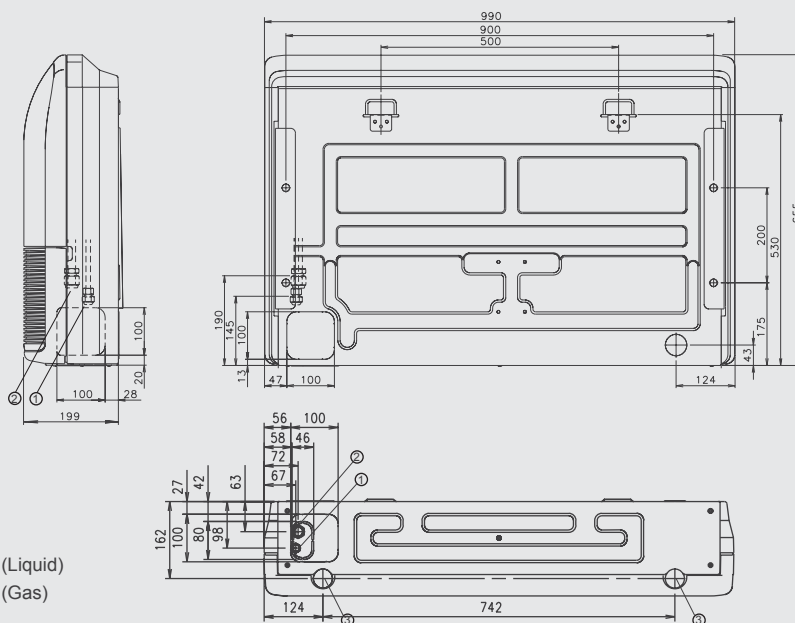


Optional parts

- Wired Remote Controller: UTB-GUD
- External Indication Kit: UTY-XWZX
- External Control Set: UTD-ECS5A

Dimensions Models: ABHF18LB / ABHF24LB

(Unit : mm)



- ① Refrigerant piping flare connection (Liquid)
- ② Refrigerant piping flare connection (Gas)
- ③ Drain piping connection

INVERTER Ceiling

Easily concealed in any installation



V
V-PAM
(30/36)

i
i-PAM
(45)

+
Double

↔
Adjust

R
Restart

↻
Auto
Changeover

↻
Fresh

↻
Fresh

↻
Economy

↻
Sleep

↻
Program

↻
W+S

☀
Filter

Optional

Wireless R.C.



Optional

Wired R.C.



For ABHA30/36LB



For ABHA45LC
(For single phase)



For ABHA36/45/54LC
(For 3 phase)



CLASS A **ALL DC**

ABHA30LB

CLASS A **ALL DC**

ABHA36LB
ABHA36LC

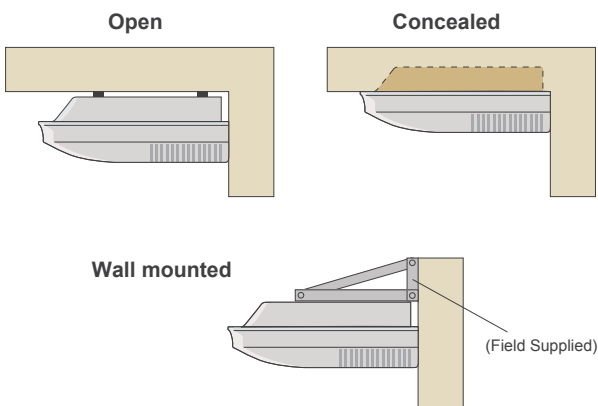
CLASS A **ALL DC**

ABHA45LC

CLASS A **ALL DC**

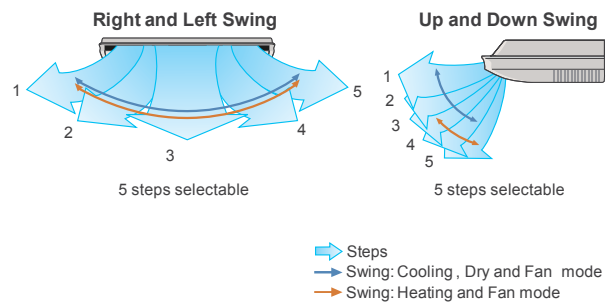
ABHA54LC

Installation



Multi auto swing

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

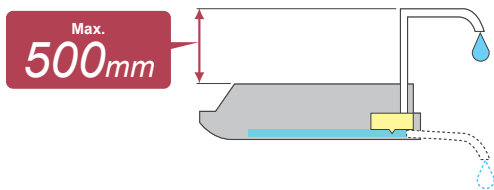


Specifications

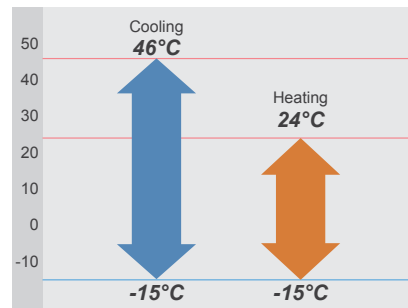
Model No.	Indoor unit		ABHA30LB	ABHA36LB	ABHA36LC	ABHA45LC	ABHA45LC	ABHA54LC
	Outdoor unit		AOHA30LF	AOHA36LF	AOHD36LA	AOHA45LB	AOHD45LA	AOHD54LA
Power Source	V/∅/Hz		230/1/50	230/1/50	400/3/50	230/1/50	400/3/50	400/3/50
Capacity	Cooling	kW	8.50	9.40	10.00	12.50	12.50	14.00
	Heating		10.00	11.20	11.20	14.00	14.00	16.00
Input Power	Cooling/Heating	kW	2.65/2.77	2.93/3.02	2.84/2.87	3.89/3.77	3.89/3.88	4.65/4.67
EER - Energy Class	Cooling	W/W	3.21-A	3.21-A	3.52-A	3.21-A	3.21-A	3.01-B
	Heating		3.61-A	3.71-A	3.9-A	3.71-A	3.61-A	3.43-B
Running Current	Cooling/Heating	A	11.6/12.2	12.8/13.2	4.3/4.4	17.0/16.5	5.8/5.8	6.9/6.9
Moisture Removal	l/h		2.5	3.0	3.0	4.5	4.5	5.0
Noise (Indoor)	Cooling	H/M/L/Q	45/43/37/32		47/43/37/32	49/45/39/34	49/45/39/34	51/48/42/38
Noise (Outdoor)	Cooling		53		51	55	54	55
Airflow Rate (High)	Indoor / Outdoor	m³/h	1660/3600	1900/3800	1900/6200	2100/6600	2100/6900	2300/6900
Net Dimension H x W x D	Indoor	mm	240×1660×700	240×1660×700	240×1660×700	240×1660×700	240×1660×700	240×1660×700
		kg(lbs)	46(101)	46(101)	46(101)	46(101)	46(101)	48(106)
	Outdoor	mm	830×900×330	830×900×330	1290×900×330	1290×900×330	1290×900×330	1290×900×330
		kg(lbs)	61(135)	61(135)	107(236)	98(216)	107(236)	107(236)
Piping Connections (Small / Large)	mm		9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain Pipe Diameter (Inner/Outer)	mm		22.0/25.6	22.0/25.6	22.0/25.6	22.0/25.6	22.0/25.6	22.0/25.6
Max Pipe Length (Chargeless)	m		50	50	75	50	75	75
Height Difference	m		30	30	30	30	30	30
Operation Range	Cooling	°CDB	-15~46	-15~46	-15~46	-15~46	-15~46	-15~46
	Heating		-15~24	-15~24	-15~24	-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A

Condensate lift-up mechanism (Option)

Optional drain lift-up mechanism allows flexible installation.



Low ambient operation



Easy installation

Main work settings can be done easily from the remote controller at installation

Main work settings

- High ceiling setting
- Auto restart
- Temperature adjustment when cooling / heating

Conventional type

Setting by DIP switch inside control box

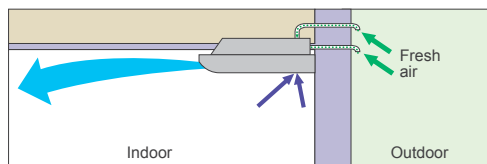


Setting by wireless or wired remote controller



(Optional parts)

Fresh air intake



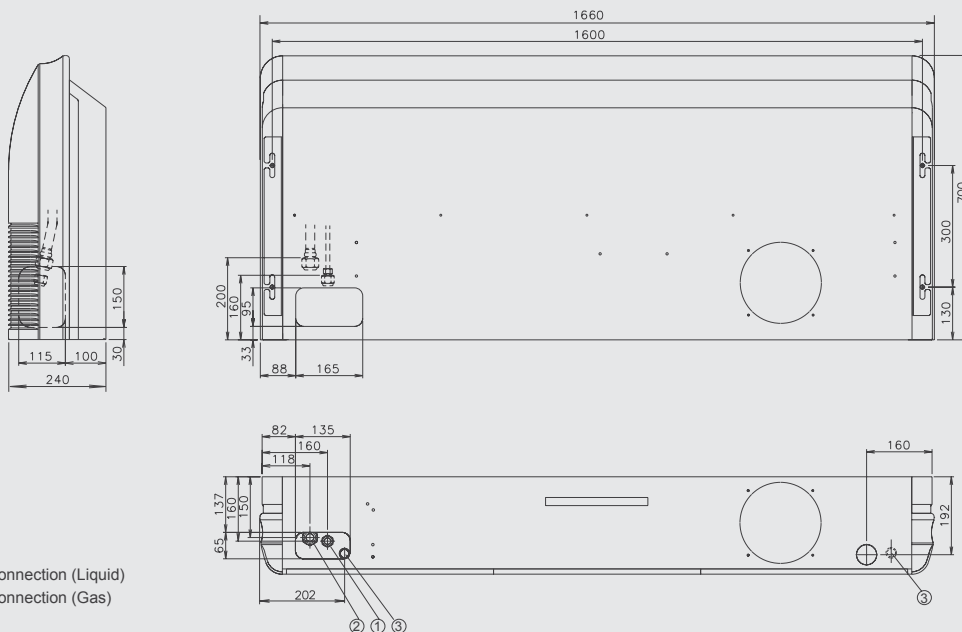
Optional parts

- Wired Remote Controller: UTB-GUD
- Drain Pump Unit: UTR-DPB24T
- External Indication Kit: UTY-XWZX
- UTY-XWZXZ2
- External Control Set: UTD-ECS5A

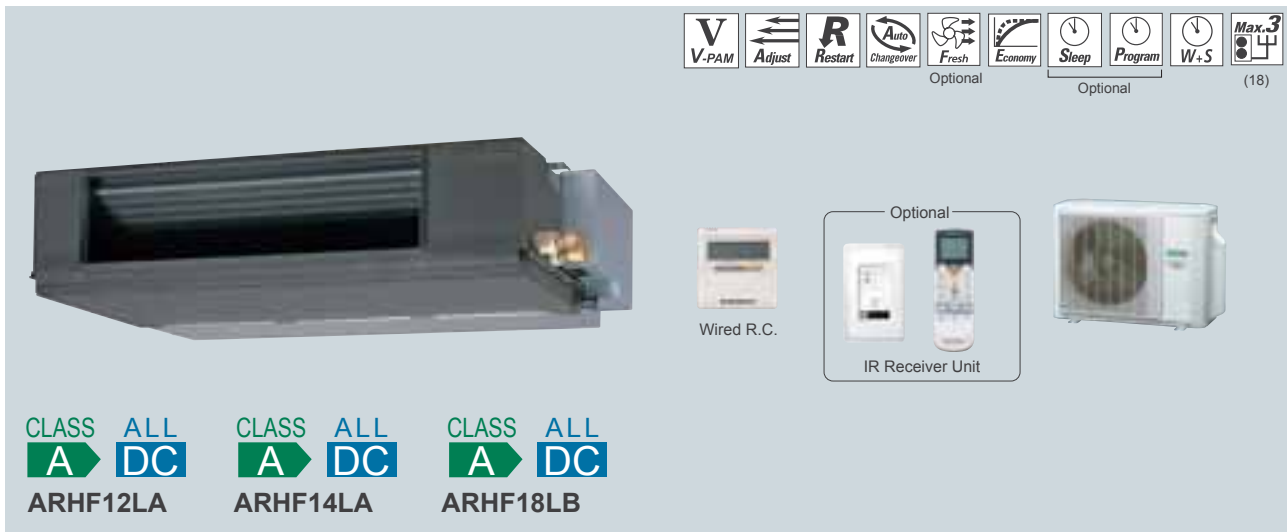
Dimensions

Models: ABHA30LB / ABHA36LB / ABHA36LC / ABHA45LC / ABHA54LC

(Unit : mm)



INVERTER Compact Duct



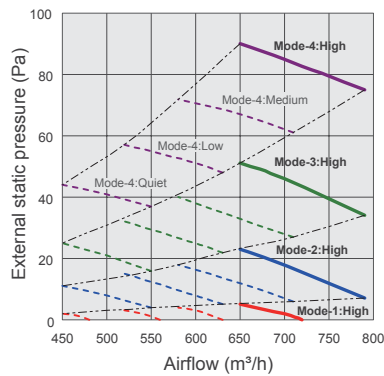
Static pressure mode setting

Static pressure mode can be selected from 4 modes, to meet wide-ranging installation conditions.

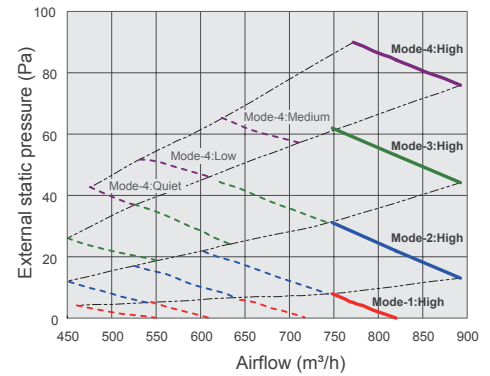
Static pressure range (High speed mode)

ARHF12LA/14LA/18LB 0 to 90 Pa

In case of ARHF12LA



In case of ARHF14LA/18LB

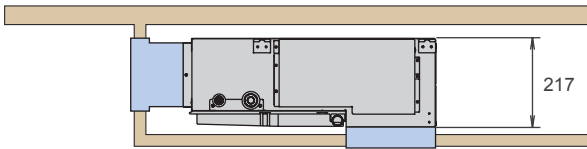


Specifications

Model No.	Indoor unit		ARHF12LA	ARHF14LA	ARHF18LB
	Outdoor unit		AOHA12LA	AOHA14LA	AOHA18LA
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	3.50	4.30	5.20
	Heating	kW	4.10	5.00	6.00
Input Power	Cooling/Heating	kW	1.05/1.11	1.33/1.34	1.62/1.66
EER - Energy Class	Cooling	W/W	3.33-A	3.21-A	3.21-A
COP - Energy Class	Heating		3.69-A	3.71-A	3.61-A
Running Current	Cooling/Heating	A	4.6/4.9	5.8/5.9	7.1/7.3
Moisture Removal		l/h	1.3	1.5	2.0
Noise (Indoor)	Cooling H/M/L/Q	dB(A)	32/30/28/26	33/31/29/27	33/31/29/27
Noise (Outdoor)	Cooling		47	49	50
Airflow Rate (High)	Indoor/Outdoor	m³/h	720/1780	870/1910	820/2000
Net Dimension H x W x D	Indoor	mm	217x953x595	217x953x595	217x953x595
		kg(lbs)	23(51)	23(51)	23(51)
	Outdoor	mm	578x790x300	578x790x300	578x790x300
		kg(lbs)	40(88)	40(88)	40(88)
Piping Connections (Small / Large)		mm	6.35/9.52	6.35/12.70	6.35/12.70
Drain Pipe Diameter (Inner/Outer)		mm	21.5/26.0	21.5/26.0	21.5/26.0
Max Pipe Length (Chargeless)		m	25	25	25
Height Difference			15	15	15
Operation Range	Cooling	°CDB	-10~46	-10~46	-10~46
	Heating	°CDB	-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A

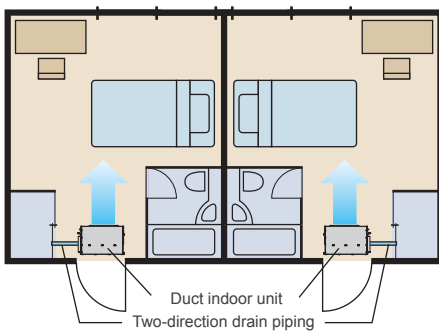
Compact design

Ultra-slim duct air conditioner for easy installation



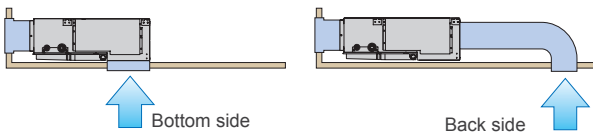
Slim size (217mm) allows installation even where the space behind the ceiling is narrow.

Two-direction drain piping

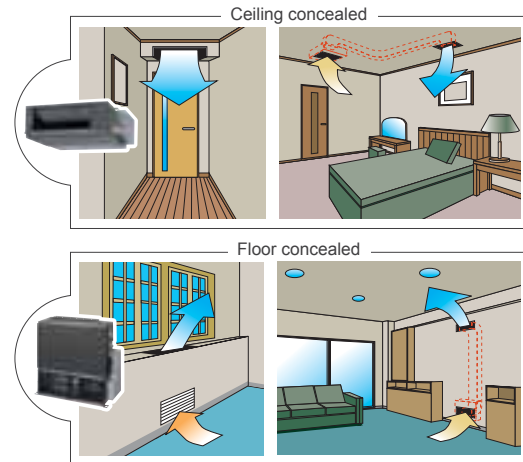


Air-intake

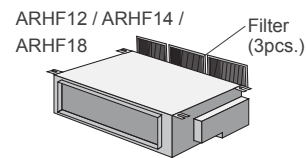
Air intake direction can be selected to match the installation site.



Flexible installation



Filter (Accessory)



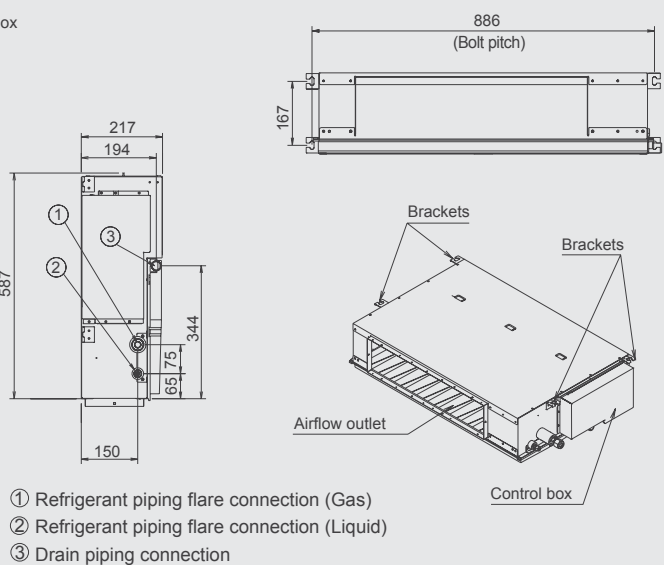
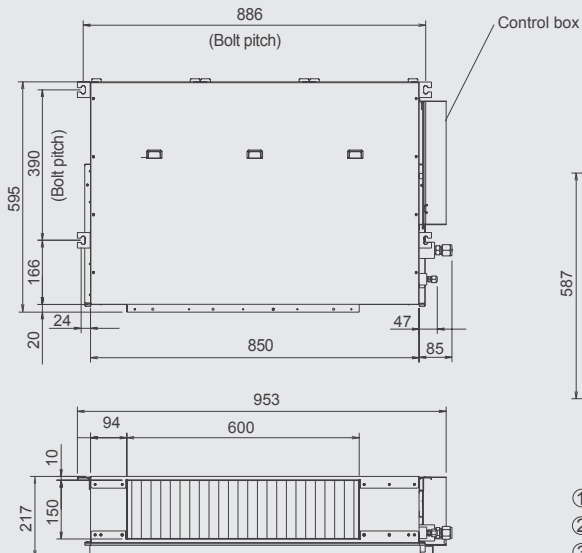
Optional parts

- Remote Sensor Unit: UTD-RS100
- IR Receiver Unit: UTY-LRHY1
- Drain Pump Unit: UTZ-PX1BBA
- External Control Set: UTD-ECS5A

Dimensions Models: ARHF12LA / ARHF14LA / ARHF18LB


(Unit : mm)

*Service accessibility must be allowed for when installing the product. Please consult the installation manual for the necessary service access size.



- ① Refrigerant piping flare connection (Gas)
- ② Refrigerant piping flare connection (Liquid)
- ③ Drain piping connection

Duct



V
V-PAM
(24/30/36)

i
i-PAM
(45)

Adjust

R
Restart

Auto
Changeover

D
Distributing

Fresh

Fresh

Economy

Sleep

Program

W+S

Max.3

Optional

Wireless R.C. (24)

Wired R.C.



Optional

Wireless R.C.



For ARHF24LB



For ARHA30/36LB



CLASS **A** ALL **DC**

ARHF24LB

CLASS **A** ALL **DC**

ARHA30LB

CLASS **A** ALL **DC**

ARHA36LB
ARHA36LC

CLASS **A** ALL **DC**

ARHA45LC

For ARHA45LC
(For single phase)

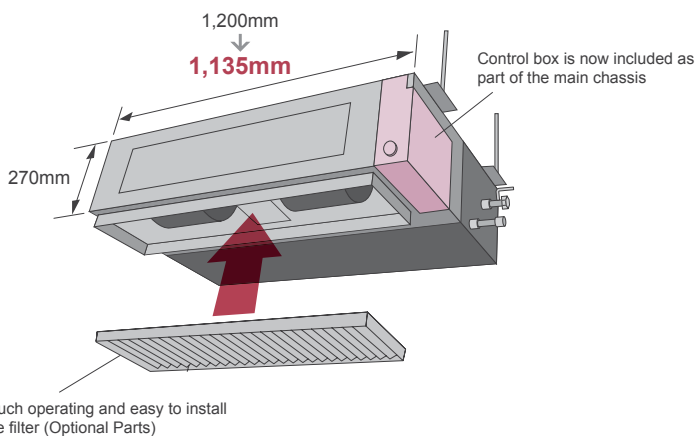


For ARHA36/45LC
(For 3 phase)



Slim & Compact design

In the case of bottom return air connection, not only does the indoor unit design allow for installation in a narrow ceiling space of up to 270mm, Further space savings have been achieved by mounting the electrical control box internally inside the chassis.



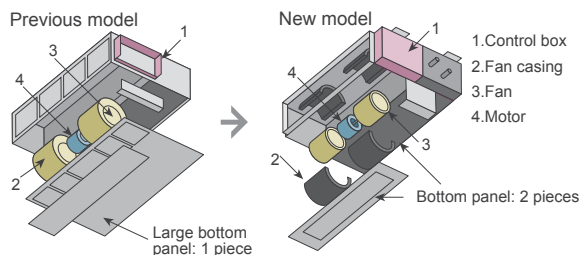
Specifications

Model No.	Indoor unit		ARHF24LB	ARHA30LB	ARHA36LB	ARHA36LC	ARHA45LC	ARHA45LC
	Outdoor unit		AOHA24LA	AOHA30LF	AOHA36LF	AOHD36LA	AOHA45LB	AOHD45LA
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50	400/3/50	230/1/50	400/3/50
Capacity	Cooling	kW	7.10	8.50	9.40	10.00	12.50	12.50
	Heating		8.00	10.00	11.20	11.20	14.00	14.00
Input Power	Cooling/Heating	kW	2.21/2.21	2.65/2.68	2.93/3.1	2.84/2.87	3.89/3.77	3.89/3.88
EER - Energy Class	Cooling	W/W	3.21-A	3.21-A	3.21-A	3.52-A	3.21-A	3.21-A
COP - Energy Class	Heating		3.61-A	3.73-A	3.61-A	3.90-A	3.71-A	3.61-A
Running Current	Cooling/Heating	A	9.7/9.7	11.6/11.7	12.8/13.6	4.3/4.4	17/16.5	5.8/5.8
Moisture Removal	l/h		2.5	2.5	3.0	3.0	3.5	4.5
Noise (Indoor)	Cooling	H/M/L/Q	31/29/27/25		42/37/32/29		40/36/31/26	
Noise (Outdoor)	Cooling		dB(A)		52		53	
Airflow Rate (High)	Indoor / Outdoor	m³/h	1100/2470	2100/3600	2100/3800	1850/6200	2250/6600	2100/6900
Net Dimension H x W x D	Indoor	mm	270x1135x700	270x1135x700	270x1135x700	270x1135x700	270x1135x700	270x1,135x700
		kg(lbs)	38(84)	40(88)	40(88)	40(88)	41(90)	40(88)
	Outdoor	mm	578x790x315	830x900x330	830x900x330	1290x900x330	1290x900x330	1290x900x330
		kg(lbs)	44(97)	61(135)	61(135)	107(236)	98(216)	107(236)
Piping Connections (Small / Large)	mm		6.35/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain Pipe Diameter (Inner/Outer)	mm		36.0/38.0	36.0/38.0	36.0/38.0	36.0/38.0	36.0/38.0	36.0/38.0
Max Pipe Length (Chargeless)	m		30	50	50	75	50	75
Height Difference	m		20	30	30	30	30	30
Operation Range	Cooling	°CDB	-10~46	-15~46	-15~46	-15~46	-15~46	-15~46
	Heating		-15~24	-15~24	-15~24	-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A

Easy maintenance

Structural improvement is attained by making the bottom panel two pieces, front and rear. The internal fan casing is also manufactured in two pieces, namely upper and lower. The maintenance of the motor and fan can be easily carried out by removing the rear panel and the lower part of the casing while leaving the main chassis installed.

See below for the case of rear suction type

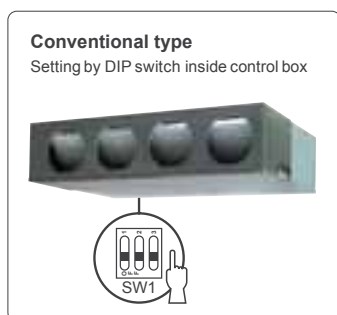


Easy installation

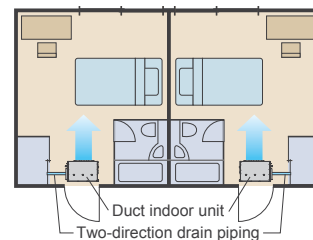
Main work settings can be done easily from the remote controller at installation

Main work settings

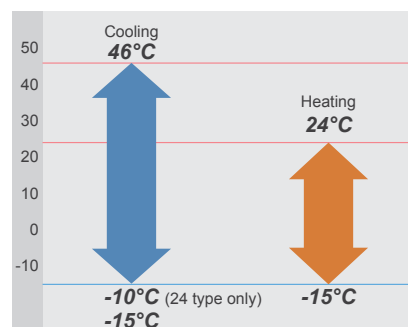
- High ceiling setting
- Auto restart
- Temperature adjustment when cooling / heating



Two-direction drain piping



Low ambient operation



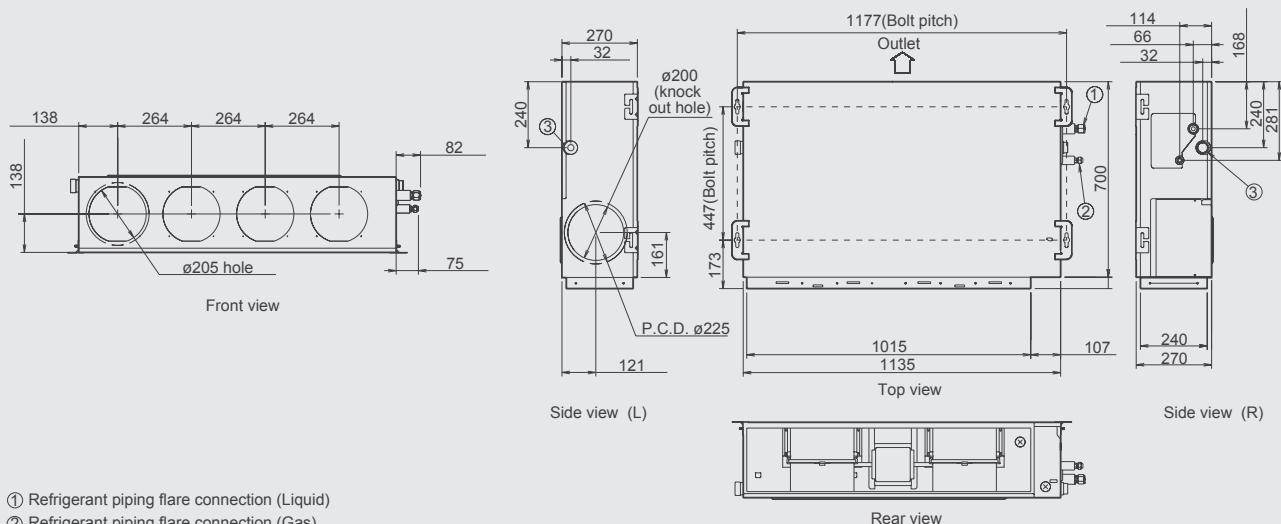
Optional parts

Flange (Round) :	UTD-RF204
Flange (Square) :	UTD-SF045T
Long Life Filter :	UTD-LF25NA
Remote Sensor Unit:	UTD-RS100
External Indication Kit:	UTY-XWZX2
External Control Set:	UTD-ECS5A
Drain Pump Unit :	UTZ-PX1NBA
IR Receiver Unit :	UTY-LRHG1

Dimensions

Models: ARHF24LB / ARHA30LB / ARHA36LB / ARHA36LC / ARHA45LC

(Unit : mm)



- ① Refrigerant piping flare connection (Liquid)
- ② Refrigerant piping flare connection (Gas)
- ③ Drain piping connection

INVERTER

High Static Pressure Duct



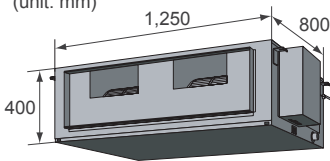
Easy installation (Compact size & Lightweight)

A compact size and lightweight indoor unit has been developed by reducing the basic chassis and the overall material weight.

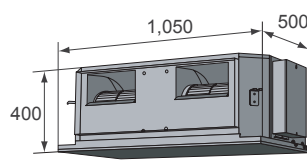
Volume
47.5%
down

Weight
40%
down

(unit: mm)



Previous model : 75kg

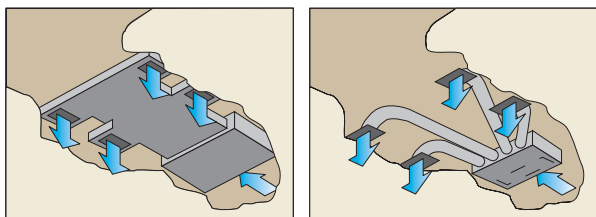
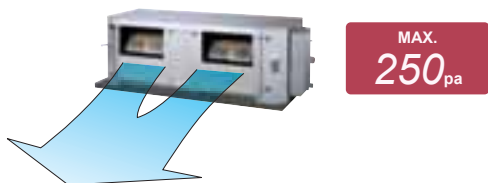


New model : 46kg (ARHC45LC/54LC)

Specifications

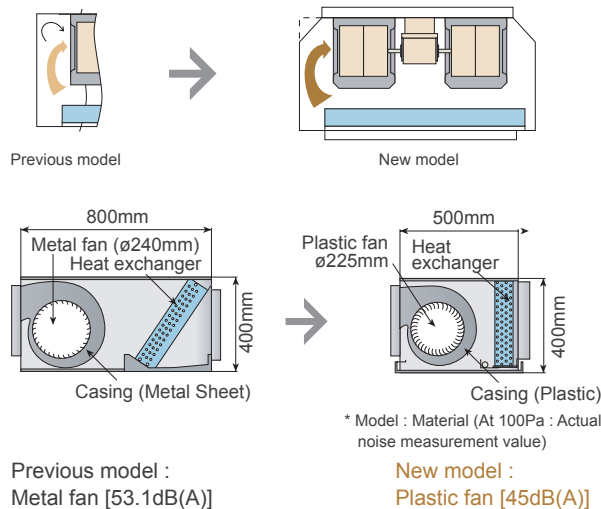
Model No.	Indoor unit		ARH45LH	ARHC45LC	ARH54LU	ARHC54LC
	Outdoor unit		AOH45LH	AOHD45LA	AOH54LU	AOHD54LA
Power Source	V/∅/Hz		230/1/50	400/3/50	230/1/50	400/3/50
Capacity	Cooling	kW	12.50	12.50	14.00	14.00
	Heating		14.00	14.00	16.00	16.00
Input Power	Cooling/Heating	kW	4.30/3.80	4.06/3.67	5.36/4.70	4.65/4.37
EER - Energy Class	Cooling	W/W	2.91	3.08-B	2.61	3.01-B
COP - Energy Class	Heating		3.68	3.81-A	3.40	3.66-A
Running Current	Cooling/Heating	A	18.9/16.7	6.1/5.5	23.6/20.6	6.9/6.5
Moisture Removal		l/h	3.0	1.5	4.0	2.5
Noise (Indoor)	Cooling H/M/L	dB(A)	49/45/42	47/43/40	49/45/42	47/43/40
Noise (Outdoor)	Cooling		54	54	54	55
Airflow Rate (High)	Indoor/Outdoor	m ³ /h	3500/6600	3350/6900	3500/6600	3350/6900
Net Dimension H x W x D	Indoor	mm	400x1050x500	400x1050x500	400x1050x500	400x1050x500
		kg(lbs)	50(110)	46(101)	50(110)	46(101)
	Outdoor	mm	1290x900x330	1290x900x330	1290x900x330	1290x900x330
		kg(lbs)	105(231)	107(236)	105(231)	107(236)
Piping Connections (Small / Large)		mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain Pipe Diameter (Inner/Outer)		mm	21.5/25.4	23.4/25.4	21.5/25.4	23.4/25.4
Max Pipe Length (Chargeless)	m		70	75	70	75
			30	30	30	30
Height Difference	°CDB		30	30	30	30
			-15~43	-15~46	-15~43	-15~46
Operation Range	Cooling		-15~43	-15~46	-15~43	-15~46
	Heating		-15~24	-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A	R410A

Design also corresponding to high static pressure

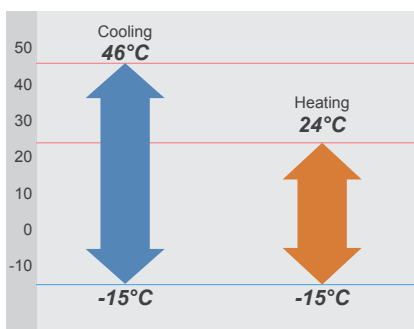


Low noise

Cutting off the corners of the conventional indoor unit front panel and fan casing, has enabled less turbulent air flow. Low noise is realized by adopting a plastic case and a plastic fan.



Low ambient operation (ARHC45LC/54LC)



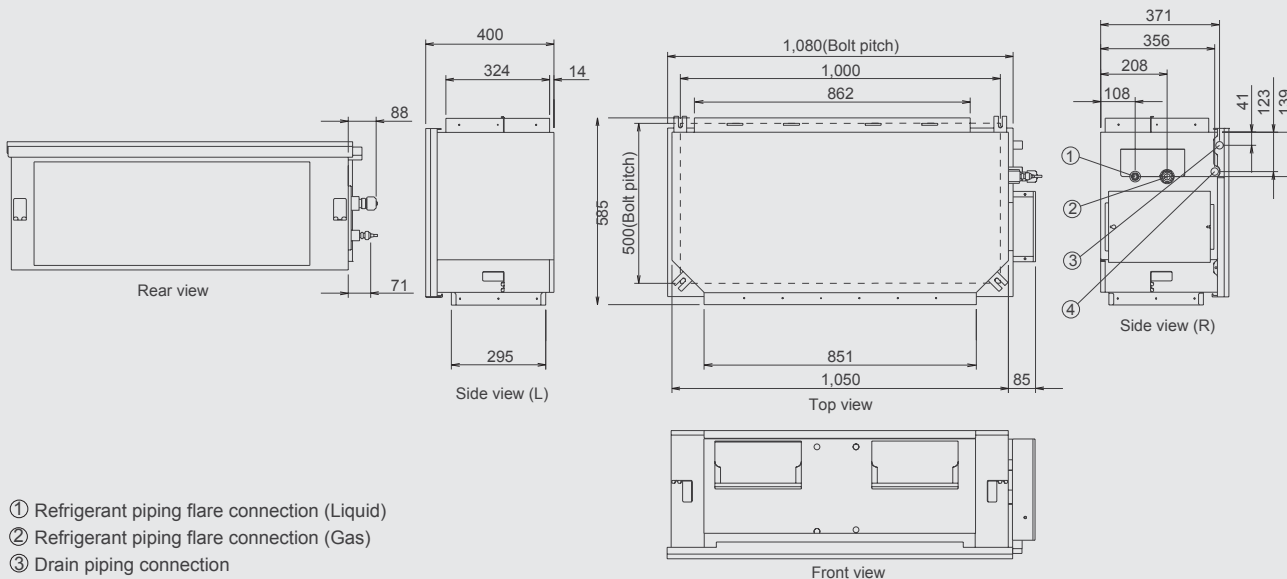
Optional parts

- Long-Life Filter: UTD-LF60KA
- External Indication Kit: UTY-XWZXZ2
- External Control Set: UTD-ECS5A

Dimensions

Models: ARH45LH / ARH54LU
ARHC45LC / ARHC54LC

(Unit : mm)



Feature Explanation

Comfortable function



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 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.



10°C HEAT operation

The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied.



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.



Economy mode

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



Energy saving mode

This mode raises the set temperature slightly in the cooling mode and lowers the set temperature in the heating mode to economically control the operation of the unit.



V-PAM control models



i-PAM control models



Simultaneous multi

2 or 3 indoor units can be connected to 1 outdoor unit.

Convenient function



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.



Filter sign

Indicates the filter cleaning period by lamp.

Clean function



Automatic filter

The filter is automatically cleaned after a set amount of time of air conditioner operation.



UV filter cleaner

UV (ultraviolet rays) suppresses the growth of mold and germs inside the indoor unit.



Plasma air cleaner

Electrically charged filter removes contaminants, dusts and odors. It also prevents the growth of bacteria.



Long-life ion deodorization filter

The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.



Apple-catechin filter

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 extracted from apples.



Coil dry

The indoor unit can be dried to prevent the growth of mold and bacteria.



Washable panel

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
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