

Easy maintenance with external control box.



ARY12L
 C —kW / —BTU/h
 H —kW / —BTU/h

ARY14L
 C —kW / —BTU/h
 H —kW / —BTU/h

ARY18L
 C 5.20kW / 17,800BTU/h
 H 6.20kW / 21,200BTU/h

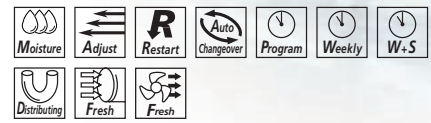


ARY24L
 C 7.10kW / 24,200BTU/h
 H 8.00kW / 27,300BTU/h

ARY30L
 C 8.50kW / 29,000BTU/h
 H 10.00kW / 34,100BTU/h

ARY36L
 C 10.00kW / 34,100BTU/h
 H 11.20kW / 38,200BTU/h

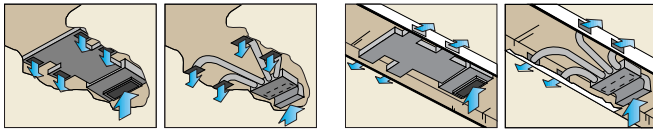
ARY45L
 C 12.50kW / 42,700BTU/h
 H 14.00kW / 47,800BTU/h



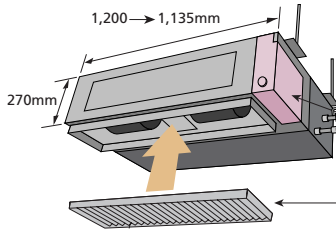
Installation styles (ARY24/30/36/45L)

Embedded in Ceiling

Hanging from Ceiling



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.)

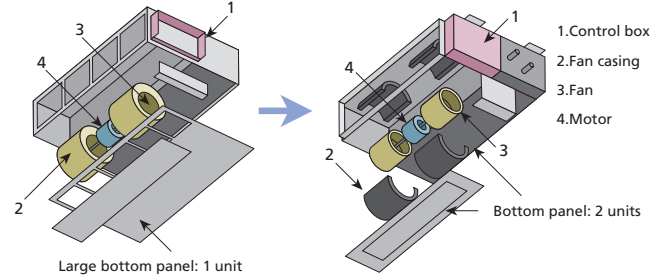
One-touch operating and easy-to-install long-life filter (Optional Parts)

Easy maintenance

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

Conventional model

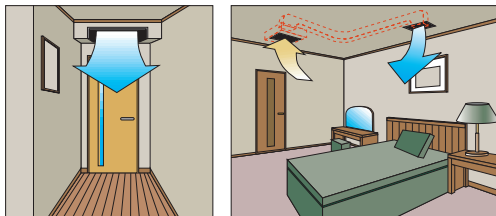
New model



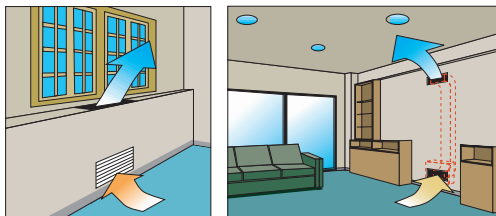
Structural improvement is attained by making the bottom panel two pieces, front and rear, and the internal fan casing is also made dismantlable in two pieces, namely, upper and lower ones. The motor and fan maintenance and dismantling can be made easily by removing the rear panel and lower part of the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

Flexible installation (ARY12/14/18L)

Ceiling concealed



Floor concealed



Optional function for comfort (ARY12/14/18L)

Optional parts

- Receiver unit & Wireless Remote Controller



Simple remote controllers

Remote Sensor

- Simple remote controllers (UTB-YPB)

Dimension(HxWxD):120x75x14mm
 Background light!!

- Remote sensor unit (UTD-RS100)

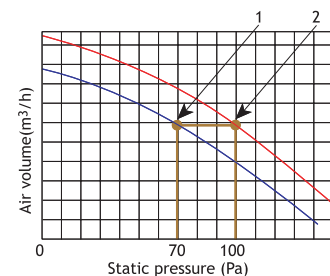
Optional parts

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

Low static pressure mode function (ARY24/30/36/45L)

- Low static pressure mode 1 air volume at 70Pa (fan speed:high)
- 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.

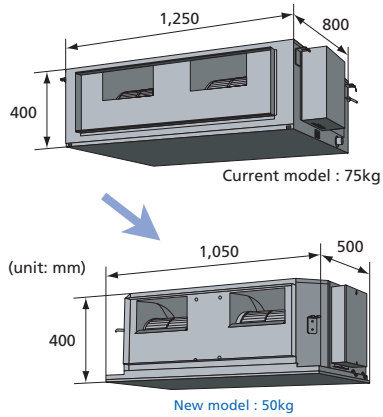


ARY45LH
 C 12.50kW / 42,700BTU/h
 H 14.00kW / 47,800BTU/h

ARY54L
 C 14.00kW / 47,800BTU/h
 H 16.00kW / 54,600BTU/h

Easy installation (Compact size & Lightweight)

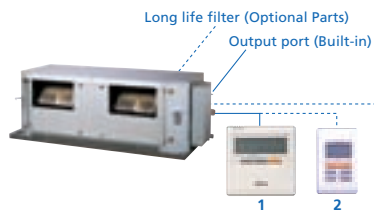
By downsizing basic chassis and reducing materials weight, compact size and lightweight are realized.



Pursuance of amenity performance

Various remote controllers and sensors can be selected.

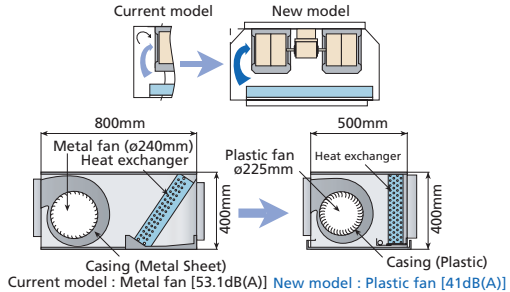
1. Wired Remote Controller with Thermo Sensor
 - Room temperature sensor selection
 - WEEKLY timer
 - Temperature SET BACK timer
 - Group control system
 - Child lock
 - Dual remote controllers <optional parts>
 - AUTO restart
 - Energy saving
 - Auto changeover <for heating>
 - Hot start <for heating>
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 (ARY45LH) and 42 dB (ARY54L).

- Large air flow volume of 1,900m³ (ARY45LH) and 3,000m³ (ARY54L) 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.

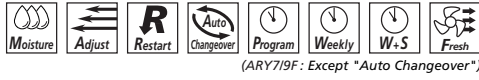


Current model : Metal fan [53.1dB(A)] New model : Plastic fan [41dB(A)]
 * Model : Material (At 100Pa : Actual noise measurement value)

Specifications

Model No.		INVERTER DUCT TYPE									
Item	Indoor Unit	ARY12L	ARY14L	ARY18L	ARY24L	ARY30L	ARY36L	ARY45L	ARY45LH	ARY54L	
Rank	Outdoor Unit	AOY12L	AOY14L	AOY18L	AOY24L	AOY30L	AOY36L	AOY45L	AOY45LH	AOY54L	
Capacity	Cooling	kW	*	*	5.20	7.10	8.50	10.00	12.50	14.00	
		BTU/h	*	*	17,800	24,200	29,000	34,100	42,700	47,800	
	Heating	kW	*	*	6.20	8.00	10.00	11.20	14.00	16.00	
		BTU/h	*	*	17,000	21,600	27,000	30,200	38,000	43,000	
Moisture Removal	l/h	*	*	1.7	1.5	2.5	3.0	4.0	3.0	4.0	
Room Air Circulation (High)	Inner	m ³ /h	*	*	800	1,490	2,200	2,290	3,500	3,500	
	Outer	m ³ /h	*	*	2,800	2,800	3,600	3,800	6,600	6,600	
Input Power	V/o/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	*	*	7.40	11.10	13.00	17.90	19.50	18.90	
		Heating	*	*	8.30	10.60	11.70	13.90	17.30	16.70	
Power Consumption	Cooling	kW	*	*	1.70	2.53	2.96	4.08	4.45	4.30	
		Heating	*	*	1.90	2.43	2.68	3.18	3.95	3.80	
EER	Cooling	*	*	3.06	2.81	2.87	2.45	2.81	2.91	2.61	
COP	Heating	*	*	3.26	3.29	3.73	3.52	3.54	3.68	3.40	
Dimensions H x W x D	Inner	mm	217x953x595	217x953x595	217x953x595	270x1,135x700	270x1,135x700	270x1,135x700	270x1,135x700	400x1,050x500	400x1,050x500
		kg(lbs)	25(55)	25(55)	25(55)	41(90)	43(95)	43(95)	45(99)	50(110)	50(110)
Net Weight	Outer	mm	650x830x320	650x830x320	650x830x320	650x830x320	830x900x330	830x900x330	1,290x900x330	1,290x900x330	1,290x900x330
		kg(lbs)	54(119)	54(119)	54(119)	54(119)	64(141)	64(141)	105(231)	105(231)	105(231)
Connection Method		Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	
Connection Pipe Size (Small/Large)	mm	6.35/9.52	6.35/12.70	6.35/12.70	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	*	*	25(10)	25(10)	50(15)	50(15)	70(20)	70(20)	70(20)	
		*	*	15	15	30	30	30	30	30	
Permissible Range of Outdoor Temp.	Cooling	°C	*	*	0-43	0-43	-10-43	-10-43	-15-43	-10-43	-10-43
		Heating	*	*	-10-24	-10-24	-10-24	-10-24	-15-24	-15-24	-15-24
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	

DUCT TYPE



(ARY7/9F: Except "Auto Changeover")



Universal Type



Wired-Type
(With Weekly/Setback Timer)



ARY7F
C 2.15kW / 7,300BTU/h

ARY9F
C 2.80kW / 9,500BTU/h

ARY7U
C 2.15kW / 7,300BTU/h
H 2.45kW / 8,400BTU/h

ARY9U
C 2.70kW / 9,200BTU/h
H 3.10kW / 10,600BTU/h



Universal Type



Wired-Type
(With Weekly/Setback Timer)



ARY12F/12U/14F/14U



ARY18F/18U

ARY12F
C 3.50kW / 11,900BTU/h

ARY14F
C 4.20kW / 14,300BTU/h

ARY18F
C 5.40kW / 18,400BTU/h

ARY12U
C 3.50kW / 11,900BTU/h
H 4.00kW / 13,600BTU/h

ARY14U
C 4.00kW / 13,700BTU/h
H 4.70kW / 16,000BTU/h

ARY18U
C 5.40kW / 18,400BTU/h
H 6.00kW / 20,500BTU/h



(ARY12F/14F/18F: Except "Auto Changeover")



Wired-Type
(With Weekly/Setback Timer)



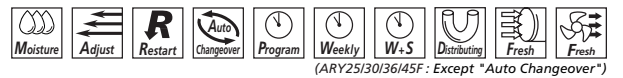
For ARY25F/25U



For ARY30F/30U



For ARY36F/36U/45F/45U



(ARY25/30/36/45F: Except "Auto Changeover")

ARY25F
C 7.05kW / 24,100BTU/h

ARY30F
C 8.40kW / 28,700BTU/h

ARY36F
C 10.50kW / 35,800BTU/h

ARY45F
C 12.70kW / 43,400BTU/h

ARY25U
C 7.00kW / 23,900BTU/h
H 7.70kW / 26,300BTU/h

ARY30U
C 8.40kW / 28,700BTU/h
H 9.50kW / 32,400BTU/h

ARY36U
C 10.50kW / 35,800BTU/h
H 12.70kW / 43,400BTU/h

ARY36U(1)
C 10.50kW / 35,800BTU/h
H 12.70kW / 43,400BTU/h

ARY45U
C 12.70kW / 43,400BTU/h
H 14.30kW / 48,800BTU/h

Specifications

Model No.		DUCT TYPE										
Item	Indoor Unit	ARY7F	ARY7U	ARY9F	ARY9U	ARY12F	ARY12U	ARY14F	ARY14U	ARY18F	ARY18U	ARY25F
Rank	Outdoor Unit	AOY7C	AOY7U	AOY9F	AOY9U	AOY12F	AOY12U	AOY14F	AOY14U	AOY18F	AOY18U	AOY25F
Capacity	Cooling	kW	2.15	2.15	2.80	2.70	3.50	3.50	4.20	4.00	5.40	7.05
		BTU/h	7,300	7,300	9,500	9,200	11,900	11,900	14,300	13,700	18,400	24,100
	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	340	340	420	420	500	500	640	640	1,000	1,000	1,100
	Outer	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	3,400	3,200	3,200
Input Power	W/ohz	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	3.70	3.60	4.60	4.40	5.50	5.50	6.30	6.30	9.00	8.80	11.50
	Heating	-	3.60	-	4.50	-	5.40	-	6.00	-	8.70	-
Power Consumption	Cooling	0.76	0.76	0.99	0.96	1.24	1.24	1.39	1.42	2.03	1.92	2.60
	Heating	-	0.76	-	0.96	-	1.21	-	1.35	-	1.87	-
EER	Cooling	2.83	2.83	2.83	2.81	2.82	2.82	3.02	2.82	2.66	2.81	2.71
COP	Heating	-	3.22	-	3.23	-	3.31	-	3.48	-	3.21	-
Dimensions H x W x D	Inner	217x663x595	217x663x595	217x663x595	217x663x595	217x953x595	217x953x595	217x953x595	217x953x595	217x953x595	217x953x595	270x1,135x700
	Outer	530x750x250	530x750x250	530x750x250	530x750x250	530x750x250	530x750x250	530x750x250	530x750x250	530x750x250	650x830x320	650x830x320
Net Weight	kg(lbs)	27(60)	28(62)	27(60)	30(66)	34(75)	34(75)	35(77)	35(77)	47(104)	52(115)	58(128)
Connection Method		Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare
Connection Pipe Size (Small/Large)	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	21~43	0~43	21~43	0~43	21~43	0~43	21~43	0~43	0~43	0~43	0~43
	Heating	-	-6~24	-	-6~24	-	-6~24	-	-6~24	-	-6~24	-
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A



ARY60F
 16.50kW / 56,300BTU/h

- Moisture
 - Adjust
 - Restart
 - Auto Changeover
 - Program
 - Weekly
 - W+S
 - Fresh
- (ARY60F: Except "Auto Changeover")



ARY60U
 16.50kW / 56,300BTU/h
 19.50kW / 66,600BTU/h



- Restart
- Program
- Weekly



Wired-Type
(With Weekly Timer)



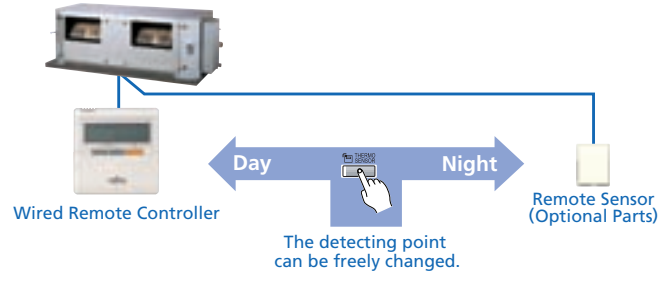
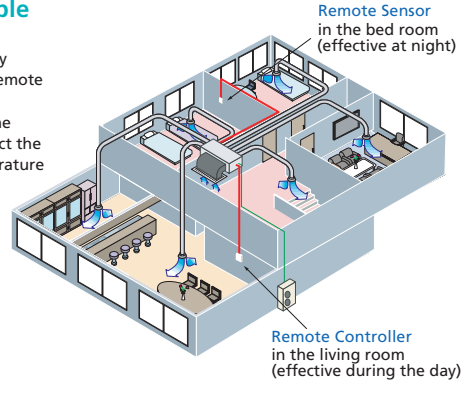
ARY90E3
 25.40-25.40kW / 86,700-86,700BTU/h

ARY90T3
 24.80-25.40kW / 84,700-86,700BTU/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

ARY25U	ARY30F	ARY30U	ARY36F	ARY36U(1)	ARY36U	ARY45F	ARY45U	ARY60F	ARY60U	ARY90E3	ARY90T3
AOY25U	AOY30F	AOY30U	AOY36F	AOY36U(1)	AOY36U	AOY45F	AOY45U	AOY60F	AOY60U	AOY90E3	AOY90T3
D / C	C	C / A	D	C / B	C / B	C	C / C	D	D / 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
23,900	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
11.80	14.00	14.00	6.40	16.00	6.10	7.70	7.70	10.00	10.20	17.50-17.00	19.50-19.50
10.50	-	12.40	-	16.50	6.20	-	7.70	-	9.80	-	19.50-19.50
2.65	2.99	2.99	3.85	3.60	3.60	4.38	4.38	5.93	6.06	10.50-10.50	12.20-12.50
2.33	-	2.63	-	3.65	3.65	-	4.39	-	5.54	-	12.20-12.50
2.64	2.81	2.81	2.73	2.92	2.92	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	400x1,050x500	400x1,050x500	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)	68(150)	69(152)	80(176)	98(216)	94(207)	109(240)	113(249)	114(251)	118(260)	243(535)	245(539)
Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare(Small)/Flange(Large)	Flare(Small)/Flange(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