

Warning



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 - Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Read the User's Manual carefully before using this product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.
- If you have any enquiries, please contact your local importer, distributor and/or retailer.



PACKAGED AIR CONDITIONERS CEILING CONCEALED TYPE

Cooling Only 50Hz

R-410A

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

Dealer

DAIKIN INDUSTRIES, LTD.

Head Office:
Umeda Center Bldg., 2-4-12, Nakazaki-Nishi,
Kita-ku, Osaka, 530-8323 Japan

Tokyo Office:
JR Shinagawa East Bldg., 2-18-1, Konan,
Minato-ku, Tokyo, 108-0075 Japan

http://www.daikin.com/global_ac/

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Unit can be mounted in the ceiling and air can be delivered freely by duct.


















A new commercial-use (stores, offices, restaurants and hotel rooms) packaged air conditioner with R-410A refrigerant has been added to the lineup.

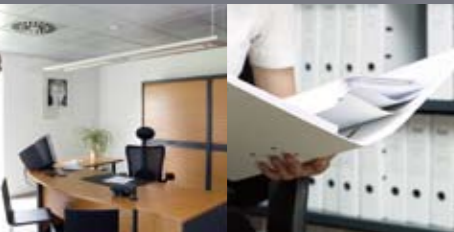
We offer a wide range of ceiling-concealed type indoor units from 2.78 kW to 16.12 kW, without distracting from the ambience of the room.

The duct can freely supply air to each corner of the room, creating a comfortable space.



Product Lineup

		FDBR series R-410A				FDMR series R-410A				
Capacity	Class	25	35	50	60	71	100	125	160	
	Btu/h	9,500	12,500	18,000	21,000	26,000	33,000	45,000	55,000	
	kW	2.78	3.66	5.28	6.15	7.62	9.67	13.19	16.12	
Indoor unit		 FDBR25AV1	 FDBR35AV1	 FDBR50AV1	 FDBR60AV1	 FDMR71AV1	 FDMR100AV1	 FDMR125AV1	 FDMR160AV1	
Outdoor unit		 RR25AV1	 RR35AV1	 RR50AV1	 RR60AV1	 RR71AV1	 RR71AY1	 RR100AY1	 RR125AY1	 RR160AY1



Features

Superior Air Distribution

The conditioned air can be effectively distributed to every corner of the room through the ducting thus realising a pleasant environment for a comfortable space. Multiple spaces can be cooled together simultaneously by using just one indoor unit.

Space Saving, Elegance and Prestige

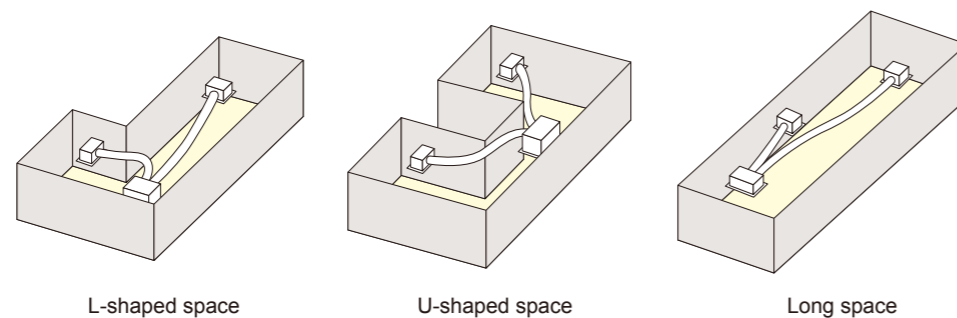
The unit is installed above the ceiling with only the supply and return air grille exposed to view. This ceiling concealed type of design has succeeded without sacrificing precious floor space. The air-conditioned space will appear as elegant and prestigious as centralised air-conditioned area. This model is ideal for small offices, hotel rooms, hospitals and restaurant applications.



Easy and Flexible Installation

The physical height of the unit is only 261mm - 378mm, therefore offering flexibility in selecting installation location.

With its specially designed installation accessories, the installation work is made easy and better air distribution can be achieved without extra expense on duct works.



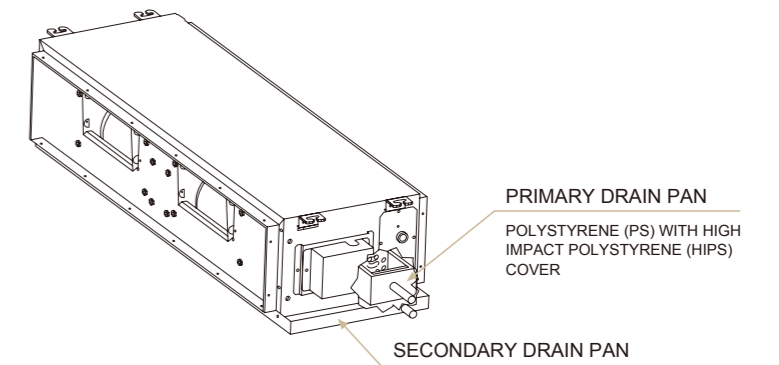
Easy Maintenance

The simple design concept has friendly maintenance and servicing in mind. Just by loosening a few screws, the secondary drain pan and drain guide can be removed, and you can access all the internal parts from the bottom of the unit. No water will spillage when removing the secondary drain pan makes the servicing work easier than ever before.

Double Protection Drainage System

High humidity inside the ceiling area is always the main cause of water leakage. By introducing the "Built In" double drain pans solution, i.e. primary drain pan and secondary drain pan, water leakage will no longer be a problem anymore. The high quality Polystyrene (PS) primary drain pan comes with a layer of thermal forming High Impact Polystyrene (HIPS) coating.

The primary drain pan is specially designed, with gradient molds, for better condensate water drainage. Furthermore, the drain pan is made of PS, which is a fine insulation material to prevent sweating. The secondary drain pan acts as a drip pan to block any water that might be dripped down thus offering an additional protection to the ceiling. In such a case, no additional drain pan is necessary during installation which means more cost saving. A drain socket is supplied to connect both drain pans to the drainage pipe.



Medium Static Pressure with a Low Sound Level

This new series has a static pressure between 0 to 15 mmAq depending on duct work installation. The casing is well insulated internally to reduce the sound level.

Anti-corrosion of Heat Exchanger Fin

The heat exchanger fin of outdoor units is treated with an anti-corrosion agent (Gold Fin).
* Except for RR71AY1

Air Filter As Standard

Washable Saranet Filter is equipped as standard.

Auto Random Restart

The unit will automatically restart according to the last setting condition when power resume after a power failure.

Self Diagnosis Features

The microprocessor provides the possibility of detecting and diagnosing any faults that occur in the system. Faults are displayed as error code in the wired controller. This will ease the troubleshooting process.

SLM Controller (Standard)



Features

- ON/OFF switch
- Temperature setting
- Operation modes (Cool/Dry/Fan)
- Fan speed selection
- Timer
- Sleep mode
- Sensor
- LED display
- Transmission source

Specifications

General Data - Cooling Only **R-410A**

Model	Indoor Unit		FDBR25AV1	FDBR35AV1	FDBR50AV1	FDBR60AV1
	Outdoor Unit		RR25AV1	RR35AV1	RR50AV1	RR60AV1
Nominal Capacity	Btu/h		9,500	12,500	18,000	21,000
	W		2,780	3,660	5,280	6,155
Nominal Total Input Power	W		961	1,297	1,750	1,953
Nominal Running Current	A		4.3	5.7	7.7	8.7
Power Source	V / ph / Hz		220 - 240 / 1 / 50	220 - 240 / 1 / 50	220 - 240 / 1 / 50	220 - 240 / 1 / 50
EER	WW		2.96	2.91	3.05	3.16
Refrigerant Type			R-410A	R-410A	R-410A	R-410A
Refrigerant Control (Expansion Device)			Outdoor Cap. Tube	Outdoor Cap. Tube	Outdoor Cap. Tube	Outdoor Cap. Tube
Control	Air Discharge		Ducted	Ducted	Ducted	Ducted
	Operation		SLM Wired Handset	SLM Wired Handset	SLM Wired Handset	SLM Wired Handset
Airflow	High	l/s / CFM	118 / 250	194 / 410	270 / 570	326 / 690
	Medium	l/s / CFM	104 / 220	170 / 360	255 / 540	302 / 640
	Low	l/s / CFM	90 / 190	151 / 320	212 / 450	245 / 520
External Static Pressure (H/M/L)	Pa (in.wg.)		29 / 20 / 10 (0.12 / 0.08 / 0.04)	29 / 20 / 10 (0.12 / 0.08 / 0.04)	29 / 20 / 10 (0.12 / 0.08 / 0.04)	29 / 20 / 10 (0.12 / 0.08 / 0.04)
Sound Pressure Level (H/M/L)	dBA		36 / 33 / 30	31 / 24 / 21	41 / 40 / 36	42 / 41 / 37
Unit Dimension	Height	mm / in	261 / 10.3	261 / 10.3	261 / 10.3	261 / 10.3
	Width	mm / in	765 / 30.1	905 / 35.6	1,065 / 41.9	1,200 / 47.2
	Depth	mm / in	411 / 16.2	411 / 16.2	411 / 16.2	411 / 16.2
Packing Dimension	Height	mm / in	376 / 14.8	376 / 14.8	376 / 14.8	376 / 14.8
	Depth	mm / in	541 / 21.3	541 / 21.3	541 / 21.3	541 / 21.3
Weight	kg / lb		18 / 40	24 / 53	27 / 60	28 / 62
Condensate Drain Size	mm / in		19.1 / 3/4	19.1 / 3/4	19.1 / 3/4	19.1 / 3/4
Airflow	l/s / CFM		396 / 840	453 / 960	614 / 1,300	689 / 1,460
Sound Pressure Level	dBA		46	49	52	52
Unit Dimension	Height	mm / in	540 / 21.3	540 / 21.3	648 / 25.5	750 / 29.5
	Width	mm / in	700 / 27.6	700 / 27.6	855 / 33.7	855 / 33.7
	Depth	mm / in	250 / 9.8	250 / 9.8	328 / 12.9	328 / 12.9
Packing Dimension	Height	mm / in	620 / 24.4	620 / 24.4	710 / 28.0	810 / 31.9
	Width	mm / in	810 / 31.9	810 / 31.9	990 / 39.0	990 / 39.0
	Depth	mm / in	330 / 13.0	330 / 13.0	415 / 16.3	415 / 16.3
Unit Weight	kg / lb		32 / 71	32 / 71	59 / 130	62 / 137
Pipe Connection	Type		Flare Valve	Flare Valve	Flare Valve	Flare Valve
	Size	Liquid	mm / in	6.4 / 1/4	6.4 / 1/4	6.4 / 1/4
Gas		mm / in	9.5 / 3/8	12.7 / 1/2	12.7 / 1/2	15.9 / 5/8
Refrigerant Charge	kg / lb		0.71 / 1.57	0.94 / 2.07	1.38 / 3.04	1.60 / 3.53

1) All specifications are subjected to change by the manufacturer without prior notice.
2) All units are being tested and comply with ISO 13253.

3) Nominal cooling capacity is based on the following conditions :
Cooling - 27°C DB / 19°C WB indoor and 35°C DB / 24°C WB outdoor
4) EER calculation is based on effective power input as per ISO 13253.

General Data - Cooling Only **R-410A**

Model	Indoor Unit		FDMR71AV1	FDMR100AV1	FDMR125AV1	FDMR160AV1
	Outdoor Unit		RR71AV1 [RR71AY1]	RR100AY1	RR125AY1	RR160AY1
Nominal Capacity	Btu/h		26,000 [26,000]	33,000	45,000	55,000
	W		7,620 [7,620]	9,670	13,190	16,120
Nominal Total Input Power	W		2,892 [2,876]	3,427	4,931	5,758
Nominal Running Current	A		13.4 [4.93]	5.85	8.5	9.4
Power Source	V / ph / Hz		220 - 240 / 1 / 50 [380-415 / 3 / 50]	380 - 415 / 3 / 50	380 - 415 / 3 / 50	380 - 415 / 3 / 50
EER	WW		2.73 [2.84]	3.03	2.87	3.01
Refrigerant Type			R-410A	R-410A	R-410A	R-410A
Refrigerant Control (Expansion Device)			Outdoor Cap. Tube	Outdoor Cap. Tube	Outdoor Cap. Tube & TXV	Outdoor Cap. Tube & TXV
Control	Air Discharge		Ducted	Ducted	Ducted	Ducted
	Operation		SLM Wired Handset	SLM Wired Handset	SLM Wired Handset	SLM Wired Handset
Airflow	Super High	l/s / CFM	401 / 850	603 / 1,280	675 / 1,430	812 / 1,720
	High	l/s / CFM	382 / 810	546 / 1,160	623 / 1,320	732 / 1,550
	Medium	l/s / CFM	363 / 770	495 / 1,050	580 / 1,230	632 / 1,340
	Low	l/s / CFM	335 / 710	433 / 920	533 / 1,130	552 / 1,170
External Static Pressure (H/M/L)	Pa (in.wg.)		98 / 78 / 68 / 59 (0.39 / 0.31 / 0.28 / 0.24)	118 / 96 / 78 / 61 (0.47 / 0.39 / 0.31 / 0.24)	147 / 126 / 109 / 92 (0.59 / 0.5 / 0.44 / 0.37)	147 / 120 / 90 / 69 (0.59 / 0.48 / 0.36 / 0.28)
Sound Pressure Level (H/M/L)	dBA		44 / 41 / 38 / 34	52 / 49 / 47 / 45	54 / 52 / 51 / 50	54 / 52 / 49 / 46
Unit Dimension	Height	mm / in	285 / 11.2	305 / 12.0	378 / 14.9	378 / 14.9
	Width	mm / in	1,007 / 39.7	1,302 / 51.3	1,299 / 51.1	1,499 / 59.0
	Depth	mm / in	600 / 23.6	638 / 25.1	541 / 21.3	541 / 21.3
Packing Dimension	Height	mm / in	343 / 13.5	355 / 14.0	415 / 16.3	415 / 16.3
	Width	mm / in	1,138 / 44.8	1,461 / 57.5	1,497 / 59.0	1,701 / 67.0
	Depth	mm / in	690 / 27.2	727 / 28.6	631 / 24.8	631 / 24.8
Weight	kg / lb		39 / 86	50 / 110	49 / 108	57 / 126
Condensate Drain Size	mm / in		19.1 / 3/4	19.1 / 3/4	19.1 / 3/4	19.1 / 3/4
Airflow	l/s / CFM		684 / 1,450	1,605 / 3,400	2,171 / 4,600	2,171 / 4,600
Sound Pressure Level	dBA		54	58	68	65
Unit Dimension	Height	mm / in	750 / 29.5	850 / 33.5	850 / 33.5	850 / 33.5
	Width	mm / in	855 / 33.7	1,030 / 40.6	1,030 / 40.6	1,030 / 40.6
	Depth	mm / in	328 / 12.9	400 / 15.8	400 / 15.8	460 / 18.1
Packing Dimension	Height	mm / in	810 / 31.9	1,000 / 39.4	1,000 / 39.4	1,016 / 40.0
	Width	mm / in	990 / 39.0	1,200 / 47.2	1,200 / 47.2	1,178 / 46.4
	Depth	mm / in	415 / 16.3	560 / 22.1	560 / 22.1	602 / 23.7
Unit Weight	kg / lb		68 / 150	95 / 209	105 / 232	108 / 238
Pipe Connection	Type		Flare Valve	Flare Valve	Flare Valve	Flare Valve
	Size	Liquid	mm / in	9.5 / 3/8	9.5 / 3/8	9.5 / 3/8
Gas		mm / in	15.9 / 5/8	15.9 / 5/8	15.9 / 5/8	19.1 / 3/4
Refrigerant Charge	kg / lb		1.80 / 3.97	2.6 / 5.73	2.73 / 6.01	3.3 / 7.27

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