



Air Conditioners

Heating & Cooling

Concealed Ceiling Unit

- » For high ambient temperatures up to 52°C
- » Heat pump system
- » 50 Hz
- » Energy efficient
- » Discretely concealed in the ceiling
- » Even air distribution in irregularly shaped rooms



www.daikin.eu



FDYM-PV1



Cool in summer, cosy in winter, and always fresh air

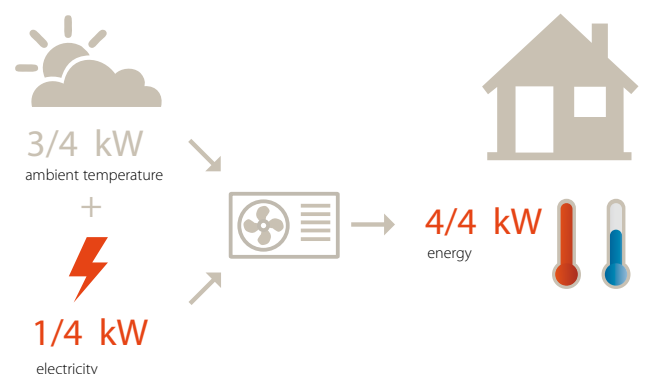
With Daikin air conditioning, you provide a climate in which your employees and customers feel good, every day of the year. You can rest assured that everyone will heave a sigh of relief when you have an air conditioner installed. A Daikin concealed system that cools, heats, dehumidifies, circulates, ventilates and filters dust, a system which excels in ease of operation and reliability. It was developed with a flair for design and an eye for detail. Whisper quiet, state-of-the-art technology in which Daikin is the leader both on the retail market and in the business world.

Combining highest efficiency and year-round comfort with a heat pump system

Did you know that ...

Air to air heat pumps use 3/4th of energy from renewable sources: the ambient air. This energy source is renewable and inexhaustible*. Of course, heat pumps also use 1/4th of electricity to run the system, but increasingly this electricity can also be generated from renewable energy sources (solar energy, wind energy, hydropower, biomass). A heat pump's efficiency is measured in COP (Coefficient Of Performance) for heating and EER (Energy Efficiency Ratio) for cooling.

* EU objective COM (2008)/30



Concealed ceiling unit

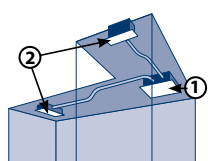
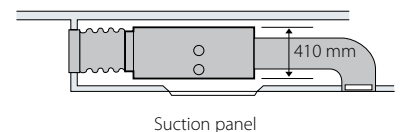
- › The concealed ceiling units belong to the **most aesthetically-pleasing and quietest systems for your climate comfort.** The slim model is installed in the ceiling, leaving only the suction and discharge grilles visible.
- › These grilles provide optimum circulation of the conditioned air - **without creating a draught** - and even temperature distribution in large or subdivided areas.
- › The limited dimensions enable our concealed ceiling units to blend in beautifully with any interior décor. They are ideal solutions for locations where there is a need for unobtrusive cooling or heating, such as in restaurants, shops, showrooms, museums, offices, sports centres, educational facilities...
- › The indoor unit is suited to **single-split applications** (one indoor unit to one outdoor unit).

Comfortable air flow: Quiet and Reliable

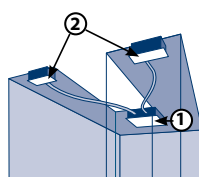
- › The concealed ceiling unit provides pleasant and comfortable air flow.
- › Moreover, a built-in **filter** permanently clears the air of microscopically small dust particles.
- › To enjoy greater comfort, there are various settings from which you can choose that can be simply selected with the **remote control.** You can, for example, choose between **three fan speeds:** high, medium or low. The high fan speed makes it possible to cover a very wide angle and the low fan speed keeps air movement down to a minimum.

Straightforward Installation means Low Costs

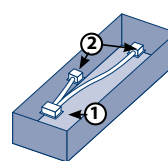
- › The concealed ceiling unit can easily be installed flush into shallow, **lowered ceilings.** If a suction panel is fitted, you will only require a concealing space of 410 mm.
- › The air discharge grilles can be installed separately from the indoor unit for use in long and "L" or "U" shaped rooms. A flexible duct system connects the grilles to the indoor unit and guarantees a pleasant climate, even in **irregularly shaped areas.**



L-shaped room



U-shaped room



Long room

- ① suction grille
- ② discharge grille (field supply) of the flexible ducts

- › The **outdoor** unit can be installed on the roof, terrace or against an outside wall.

Heating & Cooling

Indoor units				FDYM24PV1	FDYM30PV1	FDYM36PV1	FDYM42PV1	FDYM48PV1
Cooling capacity	nom	kW		6.8	7.7	9.7	11.3	13
	nom	kCal/h		5,848	6,622	8,342	9,718	11,180
	nom	Btu/h		23,200	26,300	33,000	38,600	44,400
Heating capacity	nom	kW		7.5	9.4	12	13.5	14.1
	nom	kCal/h		6,450	8,084	10,320	11,610	12,126
	nom	Btu/h		25,500	32,100	41,000	46,100	48,200
Power input	cooling	kW		2.5	2.95	3.9	4.8	5.5
	heating	kW		2.45	3.3	3.45	4.15	4.75
EER	W/W - Btu/W			2.72 - 9.28	2.5 - 8.92	2.4 - 8.46	2.4 - 8.04	2.3 - 8.07
COP	W/W			3.06	2.85	3.48	3.25	2.97
Annual energy consumption	kW/h			3,400	3,850	4,850	5,650	6,500
Dimensions	unit	W/H/D	mm	1,270x268x504		1,226x290x744		
Weight	unit		kg	36		53	55	
External static pressure			Pa	120~40		150~60	150~50	
Fan - Air flow rate	cooling	H/L	m ³ /min	23~11		42~22		
	heating	H/L	m ³ /min	23~11		42~22		
Sound pressure	cooling	H/M	dBA	43/40		53/48		54/48
	heating	H/M	dBA	43/40		53/48		54/48
Power supply				1~, 220-240V, 50Hz		3~, 380-415V, 50Hz		

Outdoor units				RY24PV1	RY30PV1	RY36PY1	RY42PY1	RY48PY1
Dimensions	unit	W/H/D	mm	1,018x695x412	980x790x440	1,018x840x412	1,107x1,100x440	
Weight	unit		kg	67	74	90	96	108
Operation range	cooling	ambient	min~max °CDB	18°C~52°C				
	heating	ambient	min~max °CWB	-7°C~24°C				
Sound pressure	cooling		dBA	57	58	60		
	heating		dBA	57	58	60		
Refrigerant	type			R-22				
	refrigerant charge			2.5	3.4	3.6	3.05	5
Piping connections	level difference	IU-OU	max	15		30		
	total piping length			30		50		
	gas/liquid			ø15.9/ø9.5		ø19.1/ø12.7		
Power supply				1~, 220-240V, 50Hz		3~, 380-415V, 50Hz		



FDYM-PV1



Wired remote control



RY-PV1



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



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ECPEN10-130