



Air Conditioners

Heating & Cooling

Concealed Ceiling Unit

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



FD(Y)M-PVL



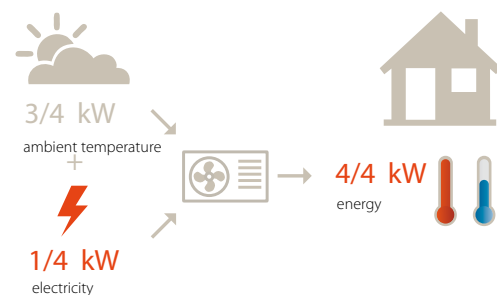
Cool in summer, cosy in winter, and always fresh air

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 have 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



Saso

EER	STAR
> 10	6
$10 \geq \text{EER} > 9.5$	5
$9.5 \geq \text{EER} > 9$	4
$9 \geq \text{EER} > 8.5$	3
$8.5 \geq \text{EER} > 7.5$	2
$\text{EER} \leq 7.5$	1



Concealed ceiling unit

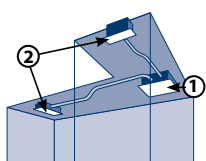
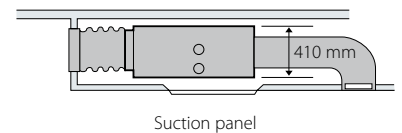
- › The concealed ceiling units belong to the **most aesthetically-pleasing and quietest systems for your climate comfort.** The slim model is installed in the ceiling, leaving only the suction and discharge grilles visible.
- › These grilles provide optimum circulation of the conditioned air - **without 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).
- › Depending on your air conditioning need, you can choose between two models: both **cooling and heating (heat pump) or cooling only.**

Comfortable air flow: Quiet and Reliable

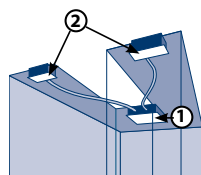
- › The concealed ceiling unit provides pleasant and comfortable air flow.
- › Moreover, a built-in **filter** permanently clears the air of microscopically small dust particles.
- › To enjoy greater comfort, there are various settings from which you can choose that can be simply selected with the **remote 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

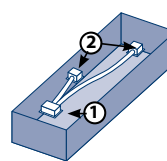
- › The concealed ceiling unit can easily be installed flush into shallow, **lowered ceilings.** If a suction panel is fitted, you will only require a concealing space of 410 mm.
- › The air discharge grilles can be installed separately from the indoor unit for use in long and "L" or "U" shaped rooms. 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				FDYM24PVL	FDYM30PVL	FDYM36PVL	FDYM42PVL	FDYM42PVL	FDYM48PVL	FDYM48PVL	
Cooling capacity	T1 ¹		kW	6.60	8.20	9.40	12.00		13.20		
			kCal/h	5,676	7,052	8,084	10,320		11,352		
			Btu/h	22,500	28,000	32,000	41,000		45,000		
	T3-SASO ²		kW	6,10	7,10	8,60	10.70		11.70		
			kCal/h	5,246	6,106	7,396	9,202		10,062		
			Btu/h	20,800	23,800	29,000	36,500		40,000		
Heating capacity	T1 ¹		kW	7.50	9.30	10.50	14.00		16.00		
			kCal/h	6,450	7,998	9,030	12,040		13,760		
			Btu/h	25,600	31,700	35,800	48,000		54,600		
Power input	cooling	T1 ¹	kW	2.70	3.45	4.00	5.17		5.79		
		T3-SASO ²	kW	3.10	4.15	4.80	6.20		7.01		
	heating	T1 ¹	kW	2.60	3.40	3.50	5.27		5.90		
EER		T1 ¹	WW - Btu/W	2.44 - 8.34	2.38 - 8.12	2.34 - 8.00	2.32 - 7.93		2.28 - 7.77		
EER - SASO		T3-SASO ²	Btu/W	6.71	5.73	6.10	5.89		5.71		
COP		T1 ¹	WW - Btu/W	3.00 - 10.24	2.74 - 9.35	3.00 - 10.24	2.66 - 9.08		2.71 - 9.25		
Energy label - SASO				2							
Annual energy consumption			kW/h	3,300	4,100	4,700	6,000		6,600		
Dimensions	unit	W/H/D	mm	1,270x268x504			1,226x290x744				
Weight	unit		kg	37			57				
External static pressure			Pa	60~110			130~60				
Fan - Air flow rate	cooling	H/L	min	16/30			26/43				
	heating	H/L	min	16/30			26/43				
Sound pressure			H/M	dBA	47/43			43			
Power supply				1~, 220V, 60Hz			3~, 220V, 60Hz	3~, 380V, 60Hz	3~, 220V, 60Hz	3~, 380V, 60Hz	

Outdoor units				RY24PVL	RY30PVL	RY36PVL	RY42PTL	RY42PYL	RY48PTL	RY48PYL
Dimensions	unit	W/H/D	mm	1,018x695x412	980x790x427			1,107x1,100x440		
Weight	unit		kg	55	68			109		
Operation range	cooling	ambient	min~max	18°C~52°C						
	heating	ambient	min~max	-7°C~24°C						
Sound pressure			dBA	56		57	58			
Refrigerant	type			R-22						
	refrigerant charge			kg	2.1	2.9	3.4	4.5	4.6	4.4
Piping connections	level difference	IU-OU	max	15			30			
	total piping length		actual	30			50			
	gas/liquid			ø15.9/ø9.52			ø19.1/ø12.7			
Power supply				1~, 220V, 60Hz			3~, 220V, 60Hz	3~, 380V, 60Hz	3~, 220V, 60Hz	3~, 380V, 60Hz

¹T1 Cooling capacities based on: Return air temperature: 27°CDB, 19.5°CWB, Outdoor temperature: 35°CDB Equivalent ref. piping:5 m (horizontal)
Heating capacities based on: Return air temperature: 20°CDB, Outdoor temperature: 7°CDB, 6°CWB Equivalent ref. piping:5 m (horizontal)

²T3-SASO Cooling capacities based on: Return air temperature: 29°CDB; 19.0°CWB, Outdoor temperature: 46°CDB; 24°CWB Equivalent ref. piping:7.5 m (horizontal)



Cooling only

Indoor units				FDM24PVL	FDM30PVL	FDM36PVL	FDM42PVL	FDM42PVL	FDM48PVL	FDM48PVL
Cooling capacity	T1 ¹	kW		6.8	8.2	9.4	12.0		13.2	
		kcal/h		5,848	7,052	8,084	10,320		11,352	
		Btu/h		23,200	28,000	32,000	41,000		45,000	
	T3-SASO ²	kW		5.8	7.1	8.5	10.8		11.5	
		kcal/h		4,988	6,106	7,310	9,288		9,890	
		Btu/h		19,800	24,100	29,000	36,900		39,200	
Power input	cooling	T1 ¹	kW	2.65	3.30	4.00	5.28		5.76	
		T3-SASO ²	kW	3.04	3.90	4.80	6.22		6.85	
EER		T1 ¹	W/W - Btu/W	2.65 - 8.75	2.49 - 8.48	2.34 - 8.00	2.28 - 7.77		2.29 - 7.81	
EER - SASO		T3-SASO ²	Btu/W	6.51	6.18	6.04	5.93		5.72	
Energy label - SASO	cooling			3			2			
Annual energy consumption			kW/h	3,400	4,100	4,700	6,000		6,600	
Dimensions	unit	W/H/D	mm	1,270x268x504	1,270x268x504	1,226x290x744	1,226x290x744			
Weight	unit		kg	34	37		57			
External static pressure			Pa	120~40		150~60	150~50			
Fan - Air flow rate	cooling	H/L	m ³ /min	23/11		38/20	42/22			
Sound pressure		H/M	dBa	47/43		48/44	50/45			
Power supply				1~, 220V, 60Hz			3~, 220V, 60Hz	3~, 380V, 60Hz	3~, 220V, 60Hz	3~, 380V, 60Hz

Outdoor units				R24PVL	R30PVL	R36PVL	R42PTL	R42PYL	R48PTL	R48PYL
Dimensions	unit	W/H/D	mm	1,018x695x412	980x790x427		1,107x1,100x440			
Weight	unit		kg	55	68		109			
Operation range	cooling	ambient	min~max	18°C~52°C						
Sound pressure			dBa	57						
Refrigerant	type	R-22								
	refrigerant charge		kg	2.10	2.90	3.40	4.20	4.50	4.30	4.20
Piping connections	level difference	IU-OU	max	15			30			
	total piping length		actual	30			50			
	gas / liquid		mm	ø15.9/ø9.52			ø12.7/ø19			
Power supply				1~, 220V, 60Hz			3~, 220V, 60Hz	3~, 380V, 60Hz	3~, 220V, 60Hz	3~, 380V, 60Hz

¹ T1 Cooling capacities based on: Return air temperature: 27°CDB, 19.5°CWB, Outdoor temperature: 35°CDB Equivalent ref. piping:5 m (horizontal)

² T3-SASO Cooling capacities based on: Return air temperature: 29°CDB; 19.0°CWB, Outdoor temperature: 46°CDB; 24°CWB Equivalent ref. piping:7.5 m (horizontal)



FD(Y)M-PVL



Wired remote control



R(Y)-PVL



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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