DAIKIN

AIR CONDITIONING

Daikin air conditioners for shops, restaurants and offices

CONCEALED CEILING UNIT

www.daikineurope.com

FHYBP-B

OPTIMISED DESIGN R-407C

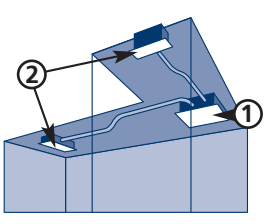
Concealed ceiling units are built into the false ceiling, leaving only the suction and discharge grilles visible. Because of this the grilles can be placed wherever you want and blend with any interior décor. The grilles allow uniform temperature distribution in large or heavily partitioned areas. Not only are concealed ceiling units visually unobtrusive, they are also among the quietest types of air conditioning.

COMFORT

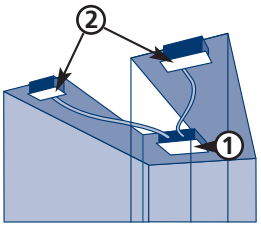
- You have the choice of 2 **fan speeds** to select: high or low. A high fan speed provides maximum reach while a low fan speed minimizes draughts.
- The indoor unit is very **quiet in operation**. The sound levels are as low as 29dB(A), comparable to rustling leaves.
- Daikin's special **dry programme** reduces humidity in the room without variations in room temperature.
- The indoor unit contains an air **filter** which removes microscopic particles and dust.

FLEXIBLE INSTALLATION AND EASY TO USE

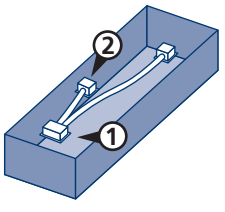
- Since the indoor unit has a low height it fits flush into narrow ceiling voids. The installation of the unit requires a **false ceiling** of only 350mm (when suction panel is used).
- The air discharge unit can be separated from the actual air conditioner for use in long, L-shaped or U-shaped rooms by means of flexible duct systems (ESP up to 88Pa). In this way even **irregularly shaped rooms** can be kept comfortable.



L-shaped room



U-shaped room



Long room

① suction grille

② discharge grille (field supply) of the flexible ducts

Capacity and power input

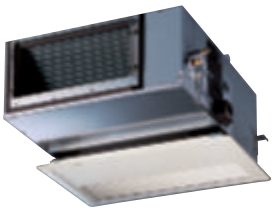
COOLING ONLY (air cooled)	INDOOR UNIT		FHYBP35B7V1	FHYBP45B7V1	FHYBP60B7V1	FHYBP71B7V1	FHYBP100B7V1	FHYBP125B7V1
	OUTDOOR UNIT					RP71L7V1/W1•RP71B7T1	RP100L7V1/W1•RP100B7T1	RP125L7W1•RP125B7T1
Cooling capacity		kW	ONLY TWIN/TRIPLE/DOUBLE TWIN APPLICATION			7.10	10.00	12.20
Power input		kW				2.66/2.60/2.70	3.78/3.68/3.55	4.62/4.58
EER						2.67/2.73/2.63	2.65/2.72/2.82	2.64/2.66
Energy label						D/D/D	D/D/C	D/D
Annual energy consumption	cooling	kWh				1,330/1,300/1,350	1,890/1,840/1,775	2,310/2,290
HEAT PUMP (air cooled)	**INDOOR UNIT**		**FHYBP35B7V1**	**FHYBP45B7V1**	**FHYBP60B7V1**	**FHYBP71B7V1**	**FHYBP100B7V1**	**FHYBP125B7V1**
	OUTDOOR UNIT					**RYP71L7V1/W1**	**RYP100L7V1/W1**	**RYP125L7W1**
Cooling capacity		kW	ONLY TWIN/TRIPLE/DOUBLE TWIN APPLICATION			7.10	10.00	12.20
Heating capacity		kW				8.00	11.20	14.50
Nominal input	cooling	kW				2.65/2.59	3.78/3.56	4.55
	heating	kW				2.49/2.49	3.91/3.87	4.52
EER						2.68/2.74	2.65/2.81	2.68
COP						3.21/3.21	2.86/2.89	3.21
Energy label	cooling					D/D	D/C	D
	heating					C/C	D/D	C
Annual energy consumption	cooling	kWh				1,325/1,295	1,890/1,780	2,275
HEAT PUMP (air cooled)	**INDOOR UNIT**		**FHYBP35B7V1**	**FHYBP45B7V1**	**FHYBP60B7V1**	**FHYBP71B7V1**	**FHYBP100B7V1**	**FHYBP125B7V1**
	OUTDOOR UNIT					**RYEP71L7V1/W1**	**RYEP100L7V1/W1**	**RYEP125L7W1**
Cooling capacity		kW	ONLY TWIN/TRIPLE/DOUBLE TWIN APPLICATION			7.10	10.00	12.20
Heating capacity		kW				8.00	11.20	14.50
Nominal input	cooling	kW				2.72/2.64	3.82/3.83	4.55
	heating	kW				2.66/2.60	3.93/3.99	4.52
EER						2.61/2.69	2.62/2.61	2.68
COP						3.01/3.08	2.85/2.81	3.21
Energy label	cooling					D/D	D/D	D
	heating					D/D	D/D	C
Annual energy consumption	cooling	kWh				1,360/1,320	1,910/1,915	2,275

1) Energy label : Scale from A (most efficient) to G (less efficient).
2) Annual energy consumption: based on average use of 500 running hours per year at full load (= nominal conditions).
3) The Energy Label Directive 2002/31/EC will enter into force once the relevant measurement standard will be published in the European Official Standard.

Specifications indoor units

COOLING ONLY / HEAT PUMP					FHYBP35B7V1	FHYBP45B7V1	FHYBP60B7V1	FHYBP71B7V1	FHYBP100B7V1	FHYBP125B7V1
Dimensions	HxWxD	unit		mm	300x700x800		300x1,000x800		300x1,400x800	
		decoration panel		mm	55x880x500		55x1,100x500		55x1,500x500	
Weight		unit		kg	30	31	41		51	52
		decoration panel		kg	3.5		4.5		6.5	
Colour		decoration panel			white			white		
Air flow rate		cooling		m^3/min	11.5/9	14/10	19/14	19/14	27/20	35/24
		heating		m^3/min	11.5/9	14/10	19/14	19/14	27/20	35/24
Fan speed					2 steps			2 steps		
Sound pressure level		cooling	H/L	dB(A)	33/29	33/29	34/30	34/30	36/31	38/32
		heating	H/L	dB(A)	33/29	33/29	34/30	34/30	36/31	38/32
Sound power level		cooling	H	dB(A)	52	53	60	60	62	63
		heating	H	dB(A)	52	53	60	60	62	63
Piping connections		liquid x no		mm	Ø 6.35x1		Ø 9.52x1		Ø 9.52x1	
		gas x no		mm	Ø 12.7x1	Ø 15.9x0.95	Ø 15.9x1		Ø 19.1x1	
		drain (VP25)		ID mm	Ø 25					
				OD mm	Ø 32					
Heat insulation					both liquid and gas pipes					

Indoor units: FHYBP-B



FHYBP35/45B7

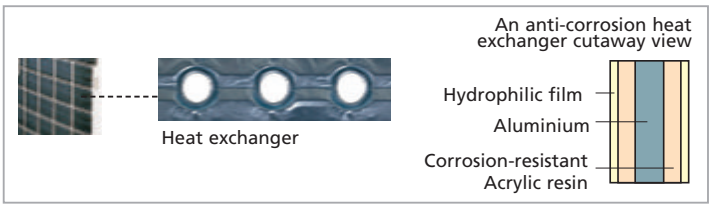
FHYBP100/125B7

Specifications outdoor units

COOLING ONLY				RP71L7V1/W1	RP71B7T1	RP100L7V1/W1	RP100B7T1	RP125L7W1	RP125B7T1
Dimensions	HxWxD		mm	770x900x320	860x880x320	1,170x900x320	1,215x880x320	1,170x900x320	1,215x880x320
Weight			kg	79/78	85	100/99	98	104	100
Casing colour				Ivory white					
Sound pressure level	H		dB(A)	50	50	53	53	53	53
Sound power level	H		dB(A)	63	63	66	66	67	67
Compressor			type	Hermetically sealed scroll					
Refrigerant charge	R-407C		kg	2.8	3.1	3.7	3.6	3.7	3.9
Maximum piping length			m	70					
Maximum level difference			m	30					
Operation range	from~to		°CDB	-15~46					

HEAT PUMP				RYP71L7V1/W1	RYP100L7V1/W1	RYP125L7W1	RYEP71L7V1/W1	RYEP100L7V1/W1	RYEP125L7W1
Dimensions	HxWxD		mm	770x900x320	1,170x900x320		770x900x320	1,170x900x320	
Weight			kg	90/79	102/101	106	75/73	93/91	106
Casing colour				Ivory white					
Sound pressure level	cooling	H	dB(A)	50	53	53	53	57	57
	heating	H	dB(A)	52	55/56	56	55	59	59
Sound power level	cooling	H	dB(A)	63	66	67	65	70	70
Compressor			type	Hermetically sealed scroll					
Refrigerant charge	R-407C		kg	2.8	3.7		2.2	3.5	
Maximum piping length			m	70			50		
Maximum level difference			m	30					
Operation range	cooling	from~to	°CDB	-5~46			+10~43		
	heating	from~to	°CWB	-10~15					

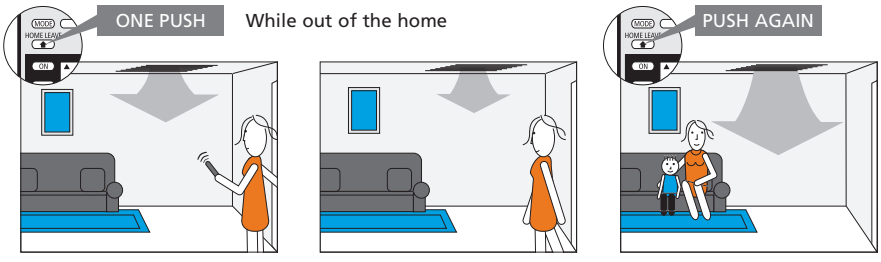
- The **outdoor unit** can be installed on a roof or terrace or placed against an outside wall.
- Special **anti-corrosion treatment** of the outdoor unit's heat exchanger fin, gives greater resistance against acid rain and salt corrosion. Additional resistance is provided by a rust proof steel sheet on the underside of the unit.



- Daikin **remote controls** give you easy control at your fingertips.
- The **wired remote control** provides you with a schedule timer, enabling to program the air conditioning daily or weekly.
- The optional **remote ON/OFF** enables you to start/stop the air conditioning from a mobile phone via a telephone remote control (field supply).
  The optional **forced OFF** enables you to switch off the unit automatically. E.g. when a window is opened, the unit switches off.

ENERGY EFFICIENT

- Energy label: up to class C
- The **'home leave' operation** button prevents large temperature differences by continuously operating at a minimum (heating mode) or maximum (cooling mode) preset level while you're out or sleeping. It also allows the indoor temperature to return quickly to your favourite comfort level.



When you go out push the "Home leave operation" button, and the air conditioner will adjust capacity to reach the preset temperature for "Home leave operation".

When you return, you will be welcomed by a comfortable air-conditioned room.

Push the "Home leave operation" button again, and the air conditioner will adjust capacity to the set temperature for normal operation.

Wired remote control (Standard)

APPLICATION OPTIONS

- This model can be used both in **cooling only or heating**.
- It is possible to use the indoor unit in **pair** (connecting one indoor to one outdoor), **twin, triple, double twin** (connecting up to 4 indoors in the same room to a single outdoor).

Accessories: control systems

INDOOR UNITS	FHYBP35B7	FHYBP45B7	FHYBP60B7	FHYBP71B7	FHYBP100B7	FHYBP125B7
Wired remote control	BRC1D527					
Central remote control	DCS302C51					
Unified ON/OFF control	DCS301B51					
Schedule timer	DST301B51					
Wiring adapter (interlock for fresh air intake fan)	KRP1B54					
Wiring adapter for electrical appendices	KRP4A51					
Interface adapter for sky air series	DTA102A52					
Remote ON/OFF, forced OFF	EKRORO					
Option box for ext. electrical heater, humidifier and/or hour meter*	EKRP1B2					

* Electrical heater, humidifier and hour metre are field supply. These parts should not be installed inside the equiment.

Accessories

INDOOR UNITS	FHYBP35B7	FHYBP45B7	FHYBP60B7	FHYBP71B7	FHYBP100B7	FHYBP125B7
Decoration panel	BYBS45DJW18		BYBS71DJW18		BYBS125DJW18	
Service access panel	KTBJ25K56W		KTBJ25K80W		KTBJ25K160W	
High-efficiency filter 65% (colorimetric method)*	KAFJ252L56		KAFJ252L80		KAFJ252L60	
High-efficiency filter 90% (colorimetric method)*	KAFJ253L56		KAFJ253L80		KAFJ253L60	
Filter chamber for bottom suction	KAJ25L56D		KAJ25L80D		KAJ25L160D	
Filter chamber for rear suction	KAJ25L56B		KAJ25L80B		KAJ25L160B	
Air suction canvas	KSA-25K56		KSA-25K80		KSA-25K160	
Blind board/screening door	KBBJ25K56		KBBJ25K80		KBBJ25K160	
Air discharge adapter for round duct	KDAJ25K56		KDAJ25K71		KDAJ25K140	

* If installing a high-efficiency filter on the unit, an assembly chamber for either bottom or rear suction is required.

Accessories

OUTDOOR UNITS		R(Y)(E)P71L7	R(Y)(E)P100L7	R(Y)(E)P125L7
Central drain plug		KKPJ5F180		
Refrigerant branch piping	twin	KHRQ22M20T7		
	triple	KHRP127HB7		

Note: 1) V1 = 1~,230V,50Hz; W1 = 3N~, 400V, 50Hz; T1 = 3N~, 230V, 50Hz
2) Nominal cooling capacities are based on: indoor temperature 27°CDB/19°CWB • outdoor temperature 35°CDB • refrigerant piping length 7.5m • level difference 0m.
3) Nominal heating capacities are based on: indoor temperature 20°CDB • outdoor temperature 7°CDB/6°CWB • refrigerant piping length 7.5m • level difference 0m.
4) Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat
5) Units should be selected on nominal capacity. Max. capacity is limited to peak periods.
6) The sound pressure level is measured via a microphone at a certain distance from the unit (for measuring conditions: please refer to the technical databooks).
7) The sound power is an absolute value indicating the "power" which a sound source generates.

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 environmental friendly products. This challenge demands the eco design and development of a wide range of products and an energy management system; which involves energy conservation and reduction of waste.

Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard.
ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.

Daikin units comply with the European regulations that guarantee the safety of the product.

Daikin Europe N.V. is participating in the EUROVENT Certification Programme. Products are as listed in the EUROVENT Directory of Certified Products.

Specifications are subject to change without prior notice.

Daikin products are distributed by:

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