

Air Conditioners

Heating & Cooling

SkyAir

- » Seasonal efficiency, optimized for all seasons
- » Discretely concealed in ceiling
- » Reduced power consumption thanks to DC inverter fans
- » Comfortable airflow
- » A steady supply of clean air
- » Standard plug and play connection with intelligent control systems

Concealed ceiling unit with inverter driven fan



www.daikin.eu



FBQ-C8, FDQ-C/B



Concealed ceiling unit for discrete installation and optimum efficiency and comfort

Daikin concealed units fit discretely in the ceiling, with only the discharge and suction grilles visible. Customers and guests are assured of whisper-quiet comfort, and as part of the Daikin seasonal efficiency line-up, Daikin concealed ceiling units meet tomorrow's stricter energy requirements today. So businesses like yours with long running hours and high air conditioning loads can enjoy the lower operating costs and increased comfort of tomorrow's technology, today.

Efficiency across the board

› Ready for the seasonal efficiency challenge

The performance of the new Daikin Sky Air seasonal efficiency lines are rated according to the new seasonal efficiency standard. This guarantees that the rated performance corresponds to the actual operating conditions of your shop, office, restaurant or hotel.

› Inverter control for optimum efficiency and comfort

Because an inverter monitors and adjusts ambient temperature whenever needed, energy consumption drops by 30% compared to a traditional on/off system (non inverter). Daikin concealed ceiling units use inverters that allow the DC fan motor to efficiently operate at the precise speed required to maintain comfort. Daikin is a pioneer in the application of inverters to air conditioning.

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

Air-to-air heat pumps obtain 75% of their output energy from renewable sources: the ambient air, which is both renewable and inexhaustible. Of course, heat pumps also require electricity to run the system, but increasingly this electricity can also be generated from renewable energy sources (solar energy, wind energy, hydropower, biomass).

› Energy saving functions via new wired controller

An enhanced **wired controller** (BRC1E52A/B) gives you access to the full functionality of the concealed ceiling unit. There are three programmable schedules (e.g. winter, summer, mid-season) plus a holiday function to disable the schedule timer. Each schedule can contain up to five actions per day. And the handy controller also indicates kWh usage by day/month/year, allowing you to clearly monitor your energy use.

Controller features:

- › Temperature range limit
- › Improved setback function
- › Off timer
- › kWh indication
- › 3 weekly timers



Wired remote control
BRC1E52A/B (optional)



Perfect comfort for your customers and guests

> **Whisper quiet**

With sound levels **down to 29dBA** (the level of rustling leaves), your customers and visitors can attend to their business undisturbed.

> **Blends with any interior**

The units are discretely concealed in the ceiling with only the suction and discharge grilles visible. No floor or wall space is needed. Decorative grilles are available to match a range of ceilings.

> **Optimum comfort in all situations**

Optimum comfort in all situations is ensured thanks to 3-step airflow control. You can easily adjust airflow via the optional wired remote controller.



Quick and easy installation for a broad range of applications

> **Fits in rooms with low ceilings**

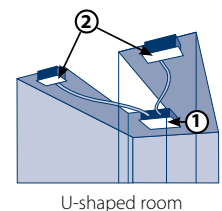
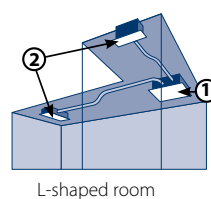
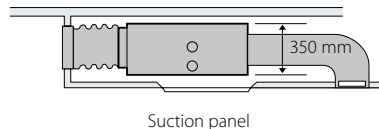
The units fit flush in **lowered ceilings** (clearance as low as 350 mm using optional suction panel).

> **Ideal for use in small and large areas**

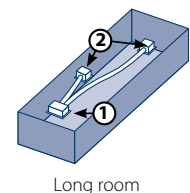
- Up to 200Pa external static pressure allows extensive ductwork runs and flexible application
- Air discharge grilles can be installed separately from the main unit for application in **irregularly shaped rooms** (e.g. L-shaped, U-shaped or long room).

> **Quicker installation**

- Fewer duct calculations are needed
- Automatic airflow adjustment via the optional remote controller eliminates the need for manual duct adjustments to obtain optimum performance
- Drain pump is standard



- ① Suction grille
- ② Discharge grille (field supply) of the flexible ducts



Cool or heat up to 9 rooms with a single outdoor unit

A single multi outdoor unit can power up to nine indoor units in different rooms. Of course, the climate of each room is individually controlled. This assures top efficiency and optimum comfort for each separate space. For long or irregularly shaped rooms you can use up to four indoor units powered by a single outdoor unit. All indoor units are controlled at the same time.

Seasonal efficiency: optimised energy performance for all seasons

The Daikin seasonal efficiency outdoor and indoor units derive their name from the improved EU standard for measuring energy efficiency. Seasonal efficiency ratings are part of Europe's approach to achieving its challenging environmental targets for 2020. The new seasonal efficiency rating scheme, or SEER (Seasonal Energy Efficiency Ratio), will be mandatory after 2013 and measures environmental performance in situations much closer to real life.

Where the old scheme measured efficiency at only one outdoor temperature and with equipment running at full load, the new seasonal efficiency scheme measures efficiency across a range of outdoor temperatures, under partial load situations and includes energy consuming auxiliary modes (such as standby) that were ignored under the old scheme.

These new ratings reward designs that truly increase energy performance in real life situations. Daikin is proud to be playing a leading role in developing and implementing this new standard, and in integrating these new standards today, well before their required implementation in 2013.



SEASONAL EFFICIENCY
Smart use of energy

Heating & Cooling

INDOOR UNIT				FBQ35C8	FBQ50C8	FBQ60C8
Cooling capacity	Min./Nom./Max.		kW	-/3.40/-	-/5.00/-	-/5.70/-
Heating capacity	Min./Nom./Max.		kW	-/4.00/-	-/5.50/-	-/7.00/-
Seasonal efficiency (according to EN14825)	Cooling	Energy label		C	B	A
		Pdesign	kW	3.50	4.90	6.00
		SEER		4.33	4.96	5.17
	Heating (Average climate)	Annual energy consumption	kWh	283	346	406
		Energy label		A	A	A
		Pdesign	kW	2.90	4.50	4.80
		SCOP		3.56	3.53	3.43
	Annual energy consumption	kWh	1,141	1,782	1,960	
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		3.21	3.03	3.26	
	COP		3.51	3.42	3.71	
	Annual energy consumption	kWh	530	825	875	
	Energy label	Cooling/Heating	A/B	B/B	A/B	
Casing	Colour	Not painted (galvanised)				
Dimensions	Unit	HeightxWidthxDepth	mm	300x700x700		300x1,000x700
Required ceiling void >			mm	350		
Weight	Unit		kg	25		34
Decoration panel	Model			BYBS45DJW1		BYBS71DJW1
	Colour	White (10Y9/0.5)				
	Dimensions	HeightxWidthxDepth	mm	55x800x500		55x1,100x500
	Weight		kg	3		4.5
Fan - Air flow rate	Cooling	High/Low	m ³ /min	16/11		18/15
	Heating	High/Nom.	m ³ /min	16/-		18/-
Fan - External static pressure	High/Nom.		Pa	100/30		
Sound power level	Cooling	Nom.	dBA	63		57
Sound pressure level	Cooling	High/Low	dBA	37/29		
	Heating	High/Low	dBA	37/29		
Piping connections	Liquid	OD	mm	6.35		
	Gas	OD	mm	9.5		12.7
Power supply	Phase / Frequency / Voltage		Hz / V	1~ / 50/60 / 220-240/220		

OUTDOOR UNIT				RXS35K	RXS50K	RXS60F
Dimensions	Unit	HeightxWidthxDepth	mm	550x765x285	735x825x300	735x825x300
Weight	Unit		kg	34	47	47
Fan - Air flow rate	Cooling	High/Low	m ³ /min	36.0/30.1	50.9/48.9	50.9/42.4
	Heating	High/Low	m ³ /min	28.3/25.6	45.0/43.1	46.3/42.4
Sound power level	Cooling	Nom./High	dBA	-/63	-/63	63/-
Sound pressure level	Cooling	High/Low	dBA	48/44	48/44	49/46
	Heating	High/Low	dBA	48/45	48/45	49/46
Operation range	Cooling	Ambient Min.-Max.	°CDB	-10~46	-10~46	-10~46
	Heating	Ambient Min.-Max.	°CWB	-15~18	-15~18	-15~18
Refrigerant	Type/GWP			R-410A/1,975	R-410A/1,975	R-410A/1,975
Piping connections	Piping length	OU - IU	Max.	20	30	30
	Level difference	IU - OU	Max.	15	20	20
Power supply	Phase / Frequency / Voltage		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
Current - 50Hz	Maximum fuse amps (MFA)		A	10	20	20

(1) EER/COP according to Eurovent 2012



Heating & Cooling



INDOOR UNIT			FBQ71C8	FBQ100C8	FBQ125C8	FBQ140C8	FBQ71C8	FBQ100C8	FBQ125C8	FBQ140C8										
Cooling capacity	Min./Nom./Max.	kW	-/6.8/-	-/9.5/-	-/12.0/-	-/13.4/-	-/6.8/-	-/9.5/-	-/12.0/-	-/13.4/-										
Heating capacity	Min./Nom./Max.	kW	-/7.5/-	-/10.8/-	-/13.5/-	-/15.5/-	-/7.5/-	-/10.8/-	-/13.5/-	-/15.5/-										
Seasonal efficiency (according to EN14825)	Cooling	Energy label	A			A+		-		A+										
		Pdesign	kW	6.8	9.5	12.0	-	6.8	9.5	12.0	-									
		SEER		5.11	5.61	-	-	5.61	-	-	-									
		Annual energy consumption	kWh	466	593	749	-	424	593	749	-									
	Heating (Average climate)	Energy label	A+			-		A+		A+										
		Pdesign	kW	6.0	11.3	12.7	-	6.00	11.3	12.7	-									
		SCOP		3.81	4.25	4.05	-	4.01	4.25	4.05	-									
		Annual energy consumption	kWh	2,202	3,724	4,377	-	2,095	3,724	4,377	-									
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		3.28	3.89	3.81	3.33	3.50	3.89	3.81	3.33										
	COP		3.61	4.21	3.83	3.61	3.65	4.21	3.83	3.61										
	Annual energy consumption	kWh	1,037	1,220	1,575	2,010	970	1,220	1,575	2,010										
Casing	Energy label	Cooling/Heating	A/A																	
	Colour		300x1,000x700		300x1,400x700		300x1,000x700		300x1,400x700											
Dimensions	Unit	HeightxWidthxDepth	mm		350		350		350											
Required ceiling void >			mm		34		34		45											
Weight	Unit		kg																	
Decoration panel	Model		BYB571DJW1		BYB5125DJW1		BYB571DJW1		BYB5125DJW1											
	Colour		White (10Y9/0.5)																	
	Dimensions	HeightxWidthxDepth	mm		55x1,100x500		55x1,500x500		55x1,100x500		55x1,500x500									
Fan - Air flow rate	Cooling	High/Low	m³/min		18/15		32/23		39/28		18/15		32/23		39/28					
	Heating	High/Nom.	m³/min		18/-		32/-		39/-		41/-		18/-		32/-		39/-		41/-	
Fan - External static pressure	High/Nom.		Pa		100/30		120/40		120/50		100/30		120/40		120/50					
Sound power level	Cooling	Nom.	dBA		57		61		66		57		61		66					
	Sound pressure level	Cooling	High/Low	dBA		37/29		38/32		40/33		37/29		38/32		40/33				
Piping connections	Heating	High/Low	dBA		37/29		38/32		40/33		41/34		37/29		38/32		40/33		41/34	
	Liquid	OD	mm						9.52											
	Gas	OD	mm						15.9											
Power supply	Phase / Frequency / Voltage	Hz / V	1~ / 50/60 / 220-240/220																	

OUTDOOR UNIT			RZQG71L7V1	RZQG100L7V1	RZQG125L7V1	RZQG140L7V1	RZQG71LY1	RZQG100LY1	RZQG125LY1	RZQG140LY1								
Dimensions	Unit	HeightxWidthxDepth	mm		990x940x320		1,430x940x320		990x940x320		1,430x940x320							
Weight	Unit		kg		78		102		80		101							
Fan - Air flow rate	Cooling	Nom.	m³/min		59		70		84		59		70		84			
	Heating	Nom.	m³/min		49		62		69		49		62		69			
Sound power level	Cooling	Nom.	dBA		64		66		67		64		66		67			
	Sound pressure level	Cooling	Nom.	dBA		48		50		51		48		50		51		52
Operation range	Heating	Nom.	dBA		50		52		53		50		52		53			
	Night quiet mode	Level 1	dBA		43		45		43		43		45		45			
Refrigerant	Cooling	Ambient	Min.-Max.	°CDB														
	Heating	Ambient	Min.-Max.	°CWB														
Piping connections	Type/GWP		R-410A/1,975															
	Piping length	OU - IU	Max.	m		50		75		50		75						
	Level difference	System	Equivalent	m		70		90		70		90						
		IU - OU	Max.	m						30.0								
	IU - IU	Max.	m						0.5									
Power supply	Phase / Frequency / Voltage	Hz / V	1~ / 50 / 220-240															
Current - 50Hz	Maximum fuse amps (MFA)	A	20		32		16		20		3N~ / 50 / 380-415							

(1) EER/COP according to Eurovent 2012

Heating & Cooling



INDOOR UNIT				FBQ71C8	FBQ100C8	FBQ125C8	FBQ140C8	FBQ100C8	FBQ125C8	FBQ140C8				
Cooling capacity	Min./Nom./Max.	kW		-/6.8/-	-/9.5/-	-/12.0/-	-/13.4/-	-/9.5/-	-/12.0/-	-/13.4/-				
Heating capacity	Min./Nom./Max.	kW		-/7.5/-	-/10.8/-	-/13.5/-	-/15.5/-	-/10.8/-	-/13.5/-	-/15.5/-				
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A		C		A		C				
		Pdesign	kW	6.8	9.5	12.0	-	9.5	12.0	-	-			
		SEER		5.11		4.35		-		5.11		4.35		
	Heating (Average climate)	Annual energy consumption	kWh	466	651	966	-	651	966	-	-			
		Energy label		A		-		-		A		-		
		Pdesign	kW	6.0	7.6		-		-		7.6		-	
		SCOP		3.81		-		-		3.81		-		
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		3.28	3.31	3.21	3.02	3.31	3.21	3.02	3.31	3.21			
	COP		3.61	3.65	3.51	3.41	3.65	3.51	3.41	3.65	3.51			
	Annual energy consumption	kWh	1,037	1,435	1,870	2,220	1,435	1,870	2,220	1,435	1,870			
Casing	Energy label	Cooling/Heating		A/A		A/B		B/B		A/A		A/B		
	Colour			-		-		-		-		-		
Dimensions	Unit	HeightxWidthxDepth	mm	300x1,000x700			300x1,400x700							
Required ceiling void >			mm	350										
Weight	Unit		kg	34			45							
Decoration panel	Model			BYBS71DJW1			BYBS125DJW1							
	Colour			White (10Y9/0.5)										
	Dimensions	HeightxWidthxDepth	mm	55x1,100x500			55x1,500x500							
	Weight		kg	4.5			6							
Fan - Air flow rate	Cooling	High/Low	m³/min	18/15	32/23	39/28		32/23	39/28					
	Heating	High/Nom.	m³/min	18/-	32/-	39/-	41/-	32/-	39/-	41/-				
Fan - External static pressure	High/Nom.		Pa	100/30	120/40	120/50		120/40	120/50					
Sound power level	Cooling	Nom.	dBA	57	61	66		61	66					
Sound pressure level	Cooling	High/Low	dBA	37/29	38/32	40/33		38/32	40/33					
	Heating	High/Low	dBA	37/29	38/32	40/33	41/34	38/32	40/33	41/34				
Piping connections	Liquid	OD	mm	9.52										
	Gas	OD	mm	15.9										
Power supply	Phase / Frequency / Voltage	Hz / V		1~ / 50/60 / 220-240/220										

OUTDOOR UNIT				RZQSG71LV1	RZQSG100LV1	RZQSG125LV1	RZQSG140LV1	RZQSG100LY1	RZQSG125LY1	RZQSG140LY1
Dimensions	Unit	HeightxWidthxDepth	mm	770x900x320	990x940x320		1,430x940x320	990x940x320		1,430x940x320
Weight	Unit		kg	67	81		102	82		101
Fan - Air flow rate	Cooling	Nom.	m³/min	52	76	77	83	76	77	83
	Heating	Nom.	m³/min	48	83		62	83		62
Sound power level	Cooling	Nom.	dBA	65	69	70	69		70	69
Sound pressure level	Cooling	Nom./Silent operation	dBA	49/47	53/49	54/49	53/49	53/-	54/-	53/-
	Heating	Nom.	dBA	51	57	58	54	57	58	54
	Night quiet mode	Level 1	dBA	-						49
Operation range	Cooling	Ambient	Min.-Max. °CDB	-5.0~46.0						
	Heating	Ambient	Min.-Max. °CWB	-15.0~15.5						
Refrigerant	Type/GWP			R-410A/1,975						
Piping connections	Piping length	OU - IU	Max.	m	30	50				
		System	Equivalent	m	40	70				
	Level difference	IU - OU	Max.	m	15	30.0				
		IU - IU	Max.	m	0.5					
Power supply	Phase / Frequency / Voltage	Hz / V		1~ / 50 / 220-240				3N~ / 50 / 380-415		
Current - 50Hz	Maximum fuse amps (MFA)	A		20	32		20			

(1) EER/COP according to Eurovent 2012



FBQ100-140C8



RZQG100-140L7V1/LY1



BRC1E52A/B

BRC4C65

Heating & Cooling



INDOOR UNIT				FDQ125C	FDQ125C	FDQ125C	FDQ125C		
Cooling capacity	Min./Nom./Max.		kW			-/12.0/-			
Heating capacity	Min./Nom./Max.		kW			-/13.5/-			
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+		C			
		Pdesign		kW		12.0			
		SEER		5.61		4.35			
		Annual energy consumption		kWh		749		966	
	Heating (Average climate)	Energy label		A+		A			
		Pdesign		kW		12.7		7.6	
		SCOP		4.05 (2)		3.81 (2)			
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		3.75		3.21				
	COP		3.83		3.51				
	Annual energy consumption		kWh		1,600		1,870		
	Energy label		Cooling/Heating		A/A		A/B		
Casing	Colour			-					
Dimensions	Unit	HeightxWidthxDepth	mm	300x1,400x700					
Required ceiling void >				350					
Weight	Unit			kg					
Decoration panel	Model			BYBS125DJW1					
	Colour			White (10Y9/0.5)					
	Dimensions	HeightxWidthxDepth	mm	55x1,500x500					
	Weight			kg					
Fan - Air flow rate	Cooling	High/Low	m³/min	39/28					
	Heating	High/Low	m³/min	39/28					
Fan - External static pressure	High/Nom.			Pa					
Sound power level	Cooling	Nom.		dBa					
Sound pressure level	Cooling	High/Low		dBa					
	Heating	High/Low		dBa					
Piping connections	Liquid	OD		mm					
	Gas	OD		mm					
Power supply	Phase / Frequency / Voltage			Hz / V					
				1~ / 50/60 / 220-240/220					



OUTDOOR UNIT				RZQG125L7V1	RZQG125LY1	RZQSG125LV1	RZQSG125LY1
Dimensions	Unit	HeightxWidthxDepth	mm	1,430x940x320		990x940x320	
Weight	Unit			kg	102	101	81
Fan - Air flow rate	Cooling	Nom.	m³/min	70		77	
	Heating	Nom.	m³/min	62		83	
Sound power level	Cooling	Nom.		dBa			
Sound pressure level	Cooling	Nom./Silent operation		dBa			
	Heating	Nom.		dBa			
	Night quiet mode	Level 1		dBa			
Operation range	Cooling	Ambient	Min.-Max.	°CDB		-5.0~46.0	
	Heating	Ambient	Min.-Max.	°CWB		-15.0~15.5	
Refrigerant	Type/GWP			R-410A/1,975			
Piping connections	Piping length	OU - IU	Max.	m		75	
		System	Equivalent	m		90	
	Level difference	IU - OU	Max.	m		30.0	
		IU - IU	Max.	m		0.5	
Power supply	Phase / Frequency / Voltage			Hz / V		1~ / 50 / 220-240	3N~ / 50 / 380-415
Current - 50Hz	Maximum fuse amps (MFA)			A		32	20

(1) EER/COP according to Eurovent 2012



FDQ125C



RZQG125L7V1/LY1



BRC1E52A/B

Heating & Cooling



INDOOR UNIT				FDQ200B	FDQ250B
Cooling capacity	Min./Nom./Max.		kW	-/20.0/-	-/24.1/-
Heating capacity	Min./Nom./Max.		kW	-/23.0/-	-/26.4/-
Nominal efficiency	EER			3.21	2.81
(cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	COP			3.41	3.21
Annual energy consumption			kWh	3,115	4,290
Energy label	Cooling/Heating			-/-	
Casing	Colour			Unpainted	
Dimensions	Unit	HeightxWidthxDepth	mm	450x1,400x900	
Required ceiling void >			mm	450	
Weight	Unit		kg	89.0	94.0
Fan - Air flow rate	Cooling	Nom.	m ³ /min	69.0	89.0
Fan - External static pressure	High/Nom./Low		Pa	250/250/250	
Sound power level	Cooling	Nom.	dBA	81.0	82.0
Sound pressure level	Cooling	High	dBA	45.0	47.0
	Heating	Low	dBA	45.0	47.0
Piping connections	Liquid	OD	mm	9.52	12.7
	Gas	OD	mm	22.2	
Power supply	Phase / Frequency / Voltage		Hz / V	1~ / 50 / 230	

OUTDOOR UNIT				RZQ200C	RZQ250C
Dimensions	Unit	HeightxWidthxDepth	mm	1,680x930x765	
Weight	Unit		kg	183	184
Fan - Air flow rate	Cooling	Nom.	m ³ /min	171	
	Heating	Nom.	m ³ /min	171	
Fan - External static pressure	Max.		Pa	78	
Sound power level	Nom.		dBA	78	
Sound pressure level	Nom.		dBA	57	
Operation range	Cooling	Ambient	Min.-Max. °CDB	-5.0~46.0	
	Heating	Ambient	Min.-Max. °CWB	-15.0~15.0	
Refrigerant	Type/GWP			R-410A/-	
Power supply	Phase / Frequency / Voltage		Hz / V	3N~ / 50 / 380-415	
Current - 50Hz	Maximum fuse amps (MFA)		A	20	

(1) EER/COP according to Eurovent 2012



FDQ200-250B



RZQ200-250C



BRC1E52A/B



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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