



# Air Conditioning Technical Data

# FHQ-CB



- > FHQ35CBVEB
- > FHQ50CBVEB
- > FHQ60CBVEB
- > FHQ71CBVEB
- > FHQ100CBVEB
- > FHQ125CBVEB

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# FHQ-CB

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#### 1 **Features**

For wide rooms with no false ceilings nor free floor space

- Ideal for comfortable air flow in wide rooms thanks to Coanda effect: up to 100° discharge angle
- Even rooms with ceilings up to 3.8m can be heated up or cooled down very easily without capacity loss
- Can easily be mounted in corners and narrow spaces, as it only needs 30mm lateral service space
- Reduced energy consumption thanks to specially developed DC fan motor and drain pump
- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible
- No optional adapter needed for DIII-connection, link your unit into the wider building management system.
- Drain pump kit available as accessory
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required





Infrastructure



Weekly timer Infrared remote Wired remote



Inverter



control



Home leave operation



control



Fan only



Centralised control



Radiant heat



Auto-restart



Vertical auto swing





Fan speed steps



Self diagnosis Drain pump kit



Dry programme



Twin/triple/ double twin application



Air filter



Multi model application



VRV for residential application

# 2 Specifications

Power ranger  Cooling   Nom	2-1 Technical Specifications					FHQ35CB	FHQ50CB	FHQ60CB	FHQ71CB	FHQ100CB	FHQ125CB	FHQ140CB		
Casing	Power input - 50Hz	Cooling	Nom.		kW	0.0	090	0.091	0.110	0.172	0.217	0.251		
Material		Heating	Nom.		kW	0.072		0.090		0.172	0.217	0.251		
Material	Casing	Colour					1							
Death   Dea														
Packed unit	Dimensions	Unit Height/Width/ m		mm	,									
Megint   Dink		Packed unit	Height/W	/idth/	mm	340/1,	116/858	349/1,4	26/878	349/1,746/878				
Peckel mint   No	Weight	Unit			kg	24	25	31	32		38			
Material   Material   Megit   Ng   8.5   3.39   15.0   15.0   15.0   16.0   1		Packed unit				38	39	52	54					
Mest exchange    Fin   Type   Teatment   Type	Packing	Material			1 -	Carton / Plywood								
Heat exchanger   Fin	, and the second	Weight			kg	8	.5				15.0			
Time	Heat exchanger		Type		1 -									
Page	Ů			nt					,					
Caunality	Air filter	Type	I											
Paramotor					рс									
Country	Fan								Sirocco fan					
Air florr rate								2			4			
Low   cfm   494   530   689   724   969   1,095   1,201   10   11.5   14   20   23   24   27   29   848   660   424   530   660   494   706   812   848   660   494   706   812   848   660   494   706   812   848   660   494   706   812   848   660   494   706   812   848   660   494   706   812   848   660   848   853   1,024   706   812   848   660   848   853   1,024   706   812   848   706   812   81			Cooling	High	m³/min	14			20.5	28		34		
Low			Jooning	9										
Parameter   Para				Low										
Heating   Heat				LOW										
Heating   High   Heating   High   Heating   High   High				Nom										
Heating   High   High   High   High   High   High   High   Heating   High   Heating   High   Heating   High   Heating   High   Heating   High   Heating   High   High   High   Heating   High   Heating   High   Heating   High   High				INUIII.										
Coling   A   A   B   B   A   B   B   B   B   B			Llastina	Himb										
Low m³/min   10			Heating	High										
Cfm														
Nom.   cfm   406   424   530   600   848   953   1,024   27   29   29   29   29   20   20   20   20				Low										
Pan motor   Country   Fan motor   Fan														
Fam motor   Model				Nom.	-									
Model		_			m³/min	11.5	12	15		24	27	29		
Speed   Steps	Fan motor					<u> </u>								
Output						KFD-28	0-87-8A	KFD-280			EQDW01EDK			
Plase x Voltage														
Full load amps (FLA)						6			1	* *				
FLA    Heating   A					V		DC280V			DC192V-380V				
Sound power level   Heating   Gooling   High/Low   dBA   53   54   55   60   62   64					Α									
Heating		(FLA)	Heating		Α		0.6		0.8	1.2	1.6	1.8		
Sound pressure level   Cooling   High/Low   dBA   36/31   37/32   37/33   38/34   42/34   44/37   46/38     Heating   High/Low   dBA   36/31   37/32   37/33   38/34   42/34   44/37   46/38     Control systems   Infrared remote control   Final Properties   F	Sound power level	Cooling			dBA	53	5	54	55	60	62	64		
Heating   High/Low   dBA   36/31   37/32   37/33   38/34   42/34   44/37   46/38		Heating			dBA	53	5	54	55	60	62	64		
Infrared remote control   Wired remote control   BRC1D52 / BRC1E52A/B / BRC1E53A / BRC1E53B / BRC1E53C / BRC1E51A	Sound pressure level	Cooling	High/Lov		dBA	36/31	37/32		38/34	42/34	44/37	46/38		
Mired remote control   BRC1D52 / BRC1E53A / BRC1E53A / BRC1E53C / BRC1E51A		Heating	High/Lov	v dBA		36/31	37/32	37/33 38/34 42/34 44/37				46/38		
Refrigerant   Type   Fluid   Fluid   Type   Fluid   Fluid   Type   Fluid	Control systems	Infrared remote con	trol						BRC7G53					
Piping connections   Sound absorbing insulation   Liquid   Type/OD   mm   C1220T (Flare connection)/6.35   C1220T (Flare connection)/9.52		Wired remote contro	ol			BF	RC1D52 / BRC	1E52A/B / BRC	1E53A / BRC1	E53B / BRC1E	.53C / BRC1E5	1A		
Liquid   Type/OD   mm	Refrigerant								R-410A					
Type/OD	Piping connections	Sound absorbing in:	sulation						Not needed					
Drain		Liquid	Type/OD		mm	C1220T	(Flare connect	tion)/6.35	C1220T (Flare connection)/9.52					
Drain		(Flare 12.7 connection)/		1220T (Flare connection)/15.9										
Heat insulation   Needed		Drain			1	l l								
Air direction control         Up and downwards           Safety devices         Item         01         Fuse (F, 5A, 250V)         FHQ100CB         FHQ100CB         FHQ100CB         FHQ140CB           Power supply         Phase         1~         1~         50         1~         1.8         1.8         1.3         1.5         1.8														
Safety devices         Item         01         Fuse (F, 5A, 250V)         FHQ100CB         FHQ100CB         FHQ100CB         FHQ140CB           2-2 Electrical Specifications         FHQ35CB         FHQ50CB         FHQ60CB         FHQ100CB         FHQ140CB           Power supply         Phase         1~           Frequency         Hz         50           Voltage         V         220-240           Current - 50Hz         Maximum running current         A         0.6         0.8         1.3         1.5         1.8														
2-2 Electrical Specifications         FHQ35CB         FHQ60CB         FHQ71CB         FHQ100CB         FHQ125CB         FHQ140CB           Power supply         Phase         1~         50														
Power supply         Phase         1~           Frequency         Hz         50           Voltage         V         220-240           Current - 50Hz         Maximum running current         A         0.6         0.8         1.3         1.5         1.8	-								EUO71CB	EHO400CB	EHO135CB	EU0140CB		
Frequency         Hz         50           Voltage         V         220-240           Current - 50Hz         Maximum running current         A         0.6         0.8         1.3         1.5         1.8						THUSSUB	THQUUE	FIIQUUCB		THQTUUCB	THUIZICE	THQ140CB		
Voltage         V         220-240           Current - 50Hz         Maximum running current         A         0.6         0.8         1.3         1.5         1.8	rower suppry													
Current - 50Hz         Maximum running current         A         0.6         0.8         1.3         1.5         1.8														
	Ourse at FOUL													
	Current - 5UHZ	-			<u> </u>		U.b		۷.۵	1.3	1.5	1.8		

### **3** 3 - 1 **Options** Options

#### FHQ-CB

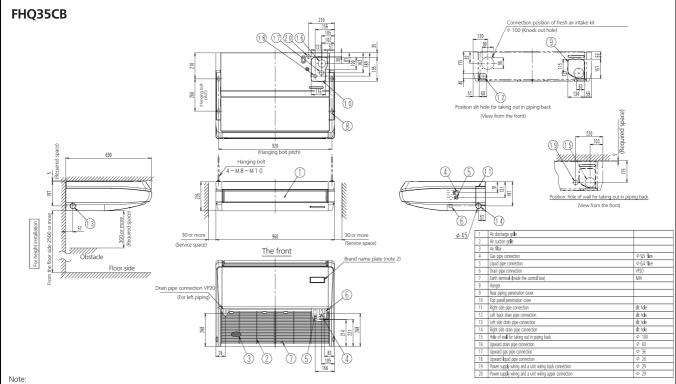
				FHQ*CBVEB							
			35	50	60	71	100	125	140		
Long-life replacement filter			KAFP	501A56	KAFP	501A80		KAFP501A160			
Fresh air intake kit				KDDQ50A140							
Drain pump kit				KDU50P60VE KDU50P140VE							
L-type piping kit (upward direct	tion)		KHFP5MA35	KHFI	FP5N63 KHFP5N160						
	Wired remote control			BRC1E53A7 <sup>(1)(2)</sup> , BRC1E53B7 <sup>(1)(3)</sup> , BRC1E53C7 <sup>(1)(4)</sup> , BRC1E52B7, BRC1E52A7, BRC1E51A7, BRC1D528							
Remote control	Wireless remote control	Heat pump				BRC7GA53	A53				
	Wireless remote control	Cooling only		BRC7GA56							
Simplified remote control (with	operation mode selector button)			BRC2E52C7 <sup>(5)</sup>							
Simplified remote control (without operation mode selector button)				BRC3E52C7 <sup>(5)</sup>							
Central remote control				DCS302CA51							
Unified ON/OFF controller				DCS301BA51							
Schedule timer				DST301BA51							
Wiring adaptor for electrical appendices				KRP1BA54							
Wiring adaptor for electrical ap	pendices			KRP4AA52 <sup>(6)</sup>							
Installation box for adaptor PCB				KRP1D93A							
Mounting plate for adaptor PCB installation box			KKSAI	KKSAP50A56 -							
Remote sensor				KRCS01-4B							
Remote "ON/OFF" and "forced OFF" kit				EKROR04							
Electrical box with earth terminal (3 blocks)				KJB311AA							
Electrical box with earth terminal (2 blocks)				KJB212AA							
Digital input adaptor				BRP7A52 <sup>(6)(7)</sup>							

(1) Included languages are: English, German, French, Italian, Spanish, Portuguese, and Dutch.
(2) Included languages are: English, Cresch, Croatian, Hungarian, Slovenian, Romanian, and Bulgarian.
(3) Included languages are: English, Russian, Greek, Turkish, Polish, Albanian, and Slovak.
(4) Included sulty rotation functionality
(5) Included languages are:
Language pack 1: English, German, French, Dutch, Spanish, Italian, and Portuguese.
With P. Ccalbe EKPCCAB 3in combination with the Updater PC software, you can additionally change the language to:
Language pack 2: English, Bulgarian, Croatian, Czech, Hungarian, Romanian, and Slovenian.
Language pack 3: English, Greek, Polish, Russian, Serbian, Slovak, and Turkish.
(6) Requires installation box for adaptor PCB (KRP1DSJA).
(7) Only possible in combination with simplified remote control BRC2/3E52C7.

3D101484

### **Dimensional drawings**

#### 4 - 1 **Dimensional Drawings**



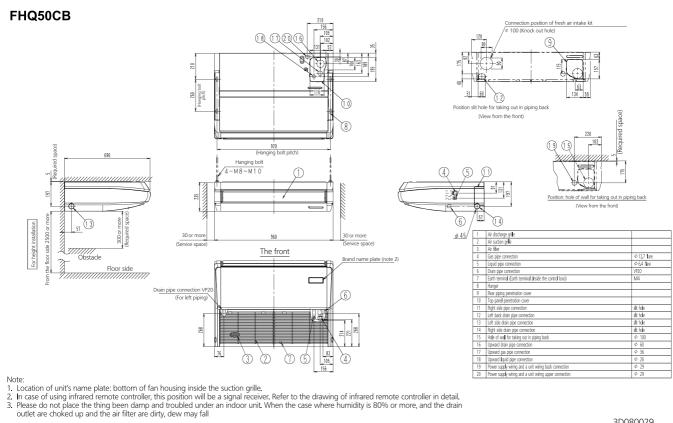
- Note:

  1. Location of unit's name plate: bottom of fan housing inside the suction grille.

  2. In case of using infrared remote controller, this position will be a signal receiver. Refer to the drawing of infrared remote controller in detail.

  3. Please do not place the thing been damp and troubled under an indoor unit. When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

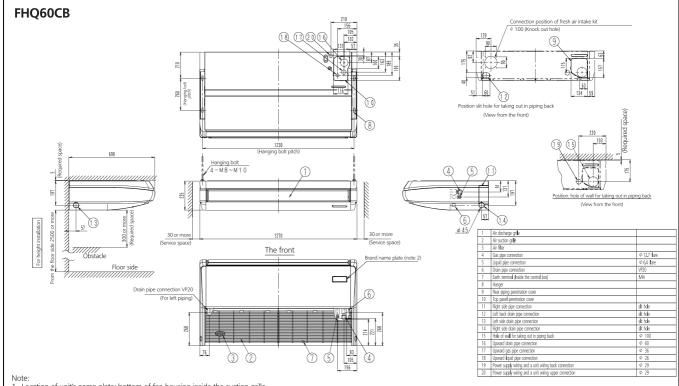
3D080028



3D080029

### **Dimensional drawings**

#### 4 - 1 **Dimensional Drawings**



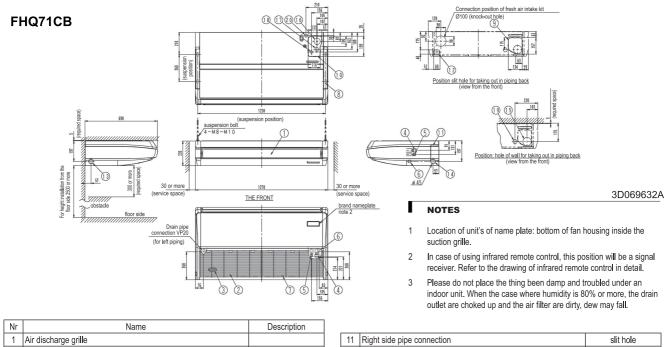
- Note:

  1. Location of unit's name plate: bottom of fan housing inside the suction grille.

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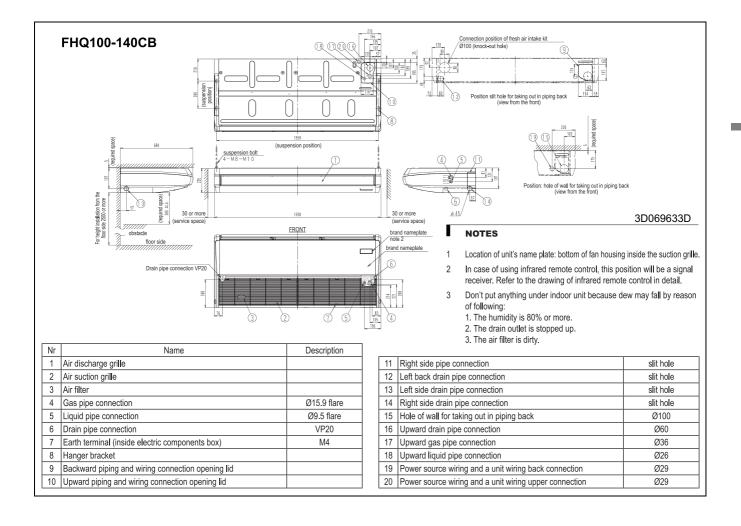


Nr	Name	Description
1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	Ø15.9 flare
5	Liquid pipe connection	Ø9.5 flare
6	Drain pipe connection	VP20
7	Earth terminal (inside electric components box)	M4
8	Hanger bracket	
9	Backward piping and wiring connection opening lid	
10	Upward piping and wiring connection opening lid	

11	Right side pipe connection	slit hole
12	Left back drain pipe connection	slit hole
13	Left side drain pipe connection	slit hole
14	Right side drain pipe connection	slit hole
15	Hole of wall for taking out in piping back	Ø100
16	Upward drain pipe connection	Ø60
17	Upward gas pipe connection	Ø36
18	Upward liquid pipe connection	Ø26
19	Power source wiring and a unit wiring back connection	Ø29
20	Power source wiring and a unit wiring upper connection	Ø29

### 4 Dimensional drawings

#### 4 - 1 Dimensional Drawings

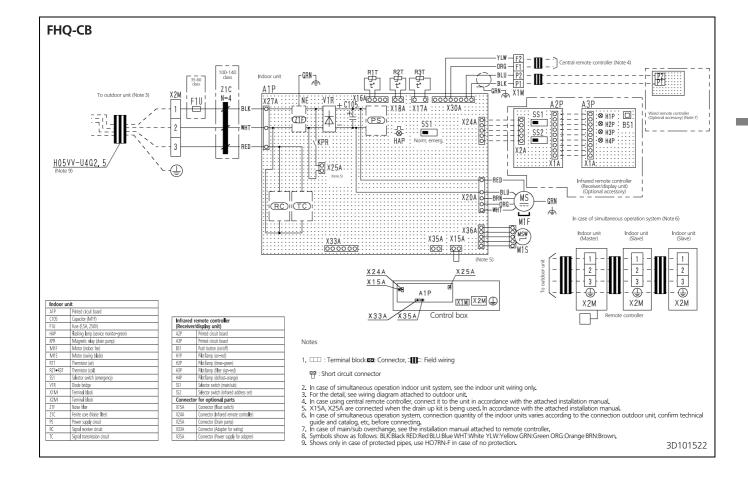


FHQ-CB Ø B C1220T-0 3D101475

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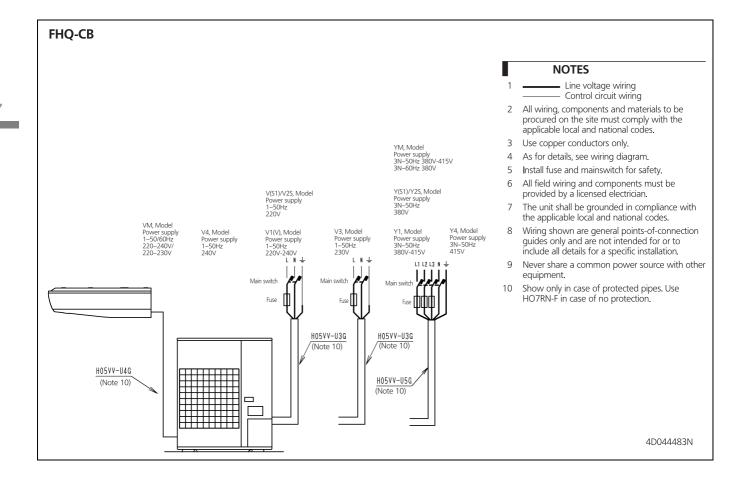
# 6 Wiring diagrams

### 6 - 1 Wiring Diagrams - Single Phase



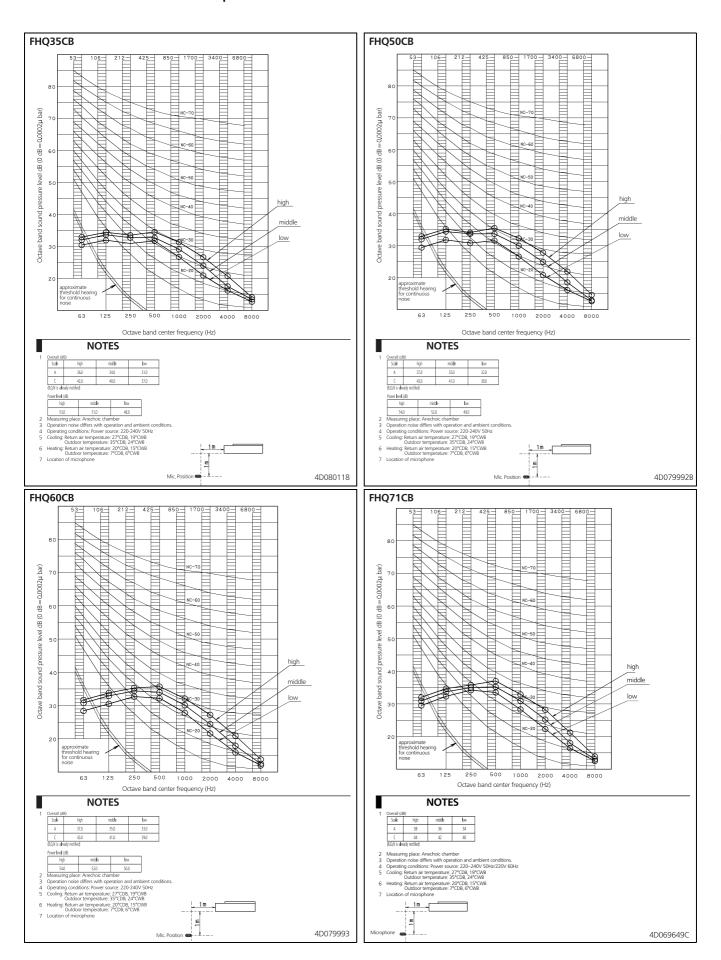
### 7 External connection diagrams

#### 7 - 1 External Connection Diagrams



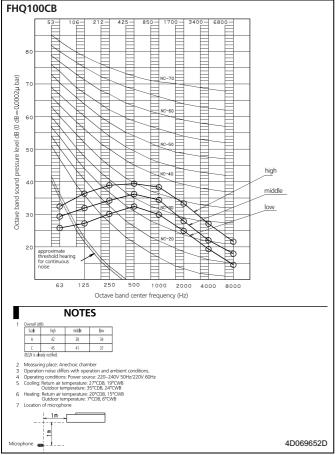
#### 8 Sound data

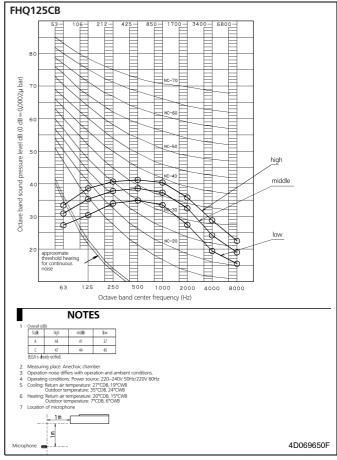
### 8 - 1 Sound Pressure Spectrum

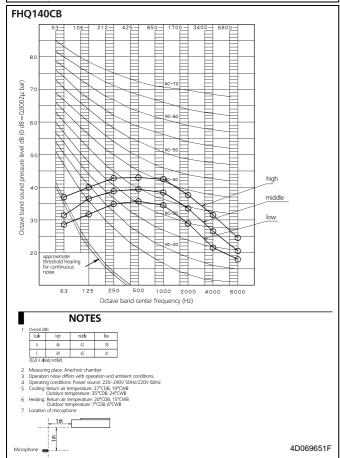


### 8 Sound data

### 8 - 1 Sound Pressure Spectrum

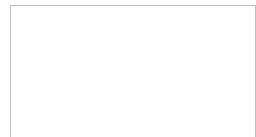








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