

# Air Conditioning **Technical Data**

Ceiling suspended unit



**EEDEN14-100** 

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#### FHQ-C

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- 1
- Ideal solution for commercial spaces with narrow or no false ceilings
- The unit can easily be mounted in corners and narrow spaces, as it only needs 30mm lateral service space
- Low energy consumption thanks to DC fan motor and drain pump
- Stylish unit blends easily with any interior, as the flaps close entirely when not in operation
- Can be installed in both new and existing buildings
- Wider air discharge thanks to Coanda effect: up to 100°
- Air flow distribution for ceiling heights up to 3.8m without capacity
- No optional adapter needed for DIII-connection, link your unit into the wider building management system.





Inverter







Auto coolingheating







Fan speed Dry programme steps



Air filter



Weekly timer



control

Infrared remote Wired remote



control

operation





Centralised control



Auto-restart



Self diagnosis Drain pump kit





Twin/triple/ double twin application



Multi model application



Super Multi Plus

## 2 Specifications

2-1 Technical S	pecifications				FHQ35C	FHQ50C	FHQ60C	FHQ71C	FHQ100C	FHQ125C	FHQ140C		
Power input - 50Hz	Cooling	Nom.		kW	0.0	090	0.091	0.110	0.172	0.217	0.251		
	Heating	Nom.		kW	0.072		0.090		0.172	0.217	0.251		
Casing	Colour					•		Fresh White		•			
	Material				Resin, sheet metal								
Dimensions	Unit	Height/Width/ Depth		mm	235/9	235/960/690 235/1,270/690 235/1,590/690							
	Packed unit	Height/M Depth	/idth/	mm	340/1,	116/858	349/1,4	126/878		349/1,746/878			
Weight	Unit	'		kg	24	25	31	32		38			
J	Packed unit			kg	38	39	52	54		61			
Packing	Material			J	_		1	Carton /	Plywood				
·g	Weight			kg	8	3.5	1:	3.9	,	15.0			
Heat exchanger	Length			mm		22		032		1,352			
Trout exertainger	Rows	Quantity			2	3	2	1		3			
	Fin pitch	Quantity		mm	2		2	1.5		J			
	Face area			m <sup>2</sup>	0.2	130	0.2	030		0.3980			
		Quantity		1111-	0.2	.130	0.3	14		0.3700			
	Stages Empty tubeplate	Quantity						0					
	hole												
	Tube type							ø7 Hi-XSL					
	Tube material							Copper					
	Tube diameter m							7.0					
	Fin	Туре						L fin (Multi louv					
		Treatme	nt			Anti Corrosion Hydrophilic							
Fan	Туре				Sirocco fan								
	Quantity			2 4									
	Air flow rate	Cooling	High	m³/min	14	15	19.5	20.5	28	31	34		
				cfm	494	530	689	724	989	1,095	1,201		
			Nom.	m³/min	11.5	12	15	17	24	27	29		
				cfm	406	424	530	600	848	953	1,024		
			Low	m³/min	1	10	11.5	14	20	23	24		
		Heating		cfm	3	53	406	494	706	812	848		
			High	m³/min	14	15	19.5	20.5	28	31	34		
		- rouming	19	cfm	494	530	689	724	989	1,095	1,201		
			Nom.	m³/min	11.5	12	15	17	24	27	29		
			INOIII.	cfm	406	424	530	600	848	953	1,024		
			Low			L							
			Low	m³/min		10	11.5	14	20	23	24		
Facilities .	0			cfm	3	53	406	494	706	812	848		
Fan motor	Quantity				VED 00	000000000000000000000000000000000000000	VED 00	1		EODMOAED!			
	Model				KFD-28	80-87-8A	KFD-28	D-117-8A		EQDW01EDK			
	Index of Protection							20					
	Insulation grade				Class "E"								
	Poles				8								
	Drive	1 -						Direct drive					
	Speed	Steps	т .	1			T	3		1			
		Cooling	High/ Mediu	rpm	864/787/710	960/856/711	875/792/709	936/825/714	1,090/935/ 780	1,170/1,017/ 864	1,254/1,076 898		
		Heating	m/Low High/ Mediu	rpm	864/787/710	960/856/711	875/792/709	936/825/714	1,090/935/ 780	1,170/1,017/ 864	1,254/1,076 898		
			m/Low										
	Output High			W	60 91			91		150			
	Phase x Voltage		V			280V			DC192V-380V				
	Full load amps	Cooling		А		0.6		0.8	1.2	1.6	1.8		
	(FLA)	Heating		Α		0.6		0.8	1.2	1.6	1.8		
Sound power level	Cooling	1		dBA	53	į	54	55	60	62	64		
	Heating	1		dBA	53	ļ	54	55	60	62	64		
Sound pressure level	Cooling	High/Nor	n./Low	dBA	36/34/31	37/35/32	37/35/33	38/36/34	42/38/34	44/41/37	46/42/38		
	Heating	Super hi	gh/High/	dBA	-/36/34/31	-/37/35/32	-/37/35/33	-/38/36/34	-/42/38/34	-/44/41/37	-/46/42/38		
		Nom./Lo	W										

## 2 Specifications

2-1 Technical	Specifications			FHQ35C	FHQ50C	FHQ60C	FHQ71C	FHQ100C	FHQ125C	FHQ140C	
Refrigerant	Туре				R-410A						
Piping connections	Sound absorbing i	nsulation					Not needed				
	Liquid	Type/OD	mm	C1220T	(Flare connect	ion)/6.35	(	C1220T (Flare o	connection)/9.5	2	
	Gas	Type/OD	mm	C1220T (Flare connection)/ (Flare connection)/ 9.5 C1220T (Flare connection)/ VP20					connection)/15.	9	
	Heat insulation			Needed							
Air direction control	•					Ul	and downwa	rds			
Air filter	Туре					Resin n	et with mold re	sistance	e		
	Quantity		рс				2				
Safety devices	Item	01		F	use (F, 5A, 250	IV)		,	_		

Standard Accessories : Clamps;

Standard Accessories : Joint insulating material;

Standard Accessories : Clamp metal; Standard Accessories : Installation pattern; Standard Accessories : Screw for wiring fixture; Standard Accessories : Installation manual; Standard Accessories : Declaration of conformity; Standard Accessories : Washer for hanger bracket;

Standard Accessories : Wiring fixture; Standard Accessories : Drain hose; Standard Accessories : Resin bushing; Standard Accessories : Operation manual; Standard Accessories : Sealing material;

2-2 Electrical S	pecifications		FHQ35C	FHQ50C	FHQ60C	FHQ71C	FHQ100C	FHQ125C	FHQ140C
Power supply	Name					VE			
	Phase 1~								
	Frequency	Hz				50/60			
	Voltage	V				220-240/220			
Current - 50Hz	Maximum running current	Α		0.6		0.8	1.3	1.5	1.8

#### **3** 3 - 1 **Safety device settings** Safety Device Settings

#### FHQ-C

	Safety devices		35	50	60	71	100	125	140
	Fuse		250V 5A	250V 5A	250V 5A				
FHQ~C	Fan motor thermal fuse	°C							
	Fan motor thermal protector	°(							

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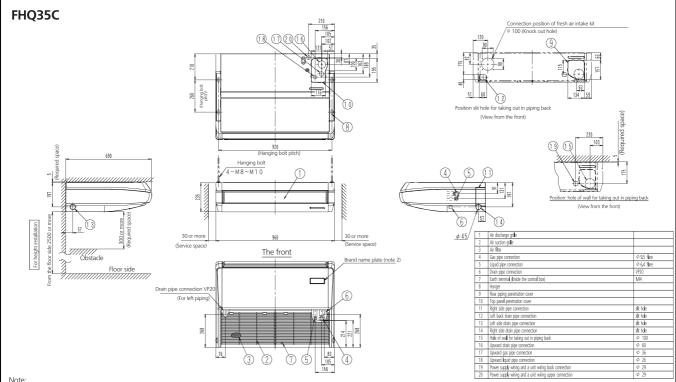
## **4** Options 4 - 1 Options

Remark			FHQ~C							
		35	50	60	71	100	125	140		
		KAFP5/	01A56	KAFP5	01A80		KAFP501A160			
					KDDQ50A140					
			KHFP5N63				KHFP5N160			
Wired type				BRC1D528, BI		7, BRC1E52B7				
Infrared type			BRC7GA53							
	Cooling only use									
oller			DCS302CA51							
oller			DCS301BA51							
			DST301BA51							
			KRP1BA54							
actrical appendices			KRP4AA52							
			_							
outdoor unit (installation on indoc	or unit)				_					
Japter PCB					KRP1D93A					
					KRCS01-4B					
ector for forced on, forced off)			EKRORO4							
loise filter (for electromagnetic use only)			-							
rth terminal (3 blocks)					KJB311AA					
rth terminal (2 blocks)			KJB212AA							
	upward direction)  Wired type  Infrared type  Oller  octrical appendices ectrical appendices ectrical appendices outdoor unit (installation on indoordapter PCB	upward direction)  Wired type Infrared type Infrared type Cooling only use  oller  ectrical appendices ectrical appendices ectrical appendices outdoor unit (installation on indoor unit) dapter PCB  nector for forced on, forced off) omagnetic use only) arth terminal (3 blocks)	upward direction)  Wired type Infrared type Cooling only use  Oller  ectrical appendices ectrical appendices ectrical appendices outdoor unit (installation on indoor unit) dapter PCB  nector for forced on, forced off) omagnetic use only) arth terminal (3 blocks)	35 50  KAFP501A56  upward direction)  Wired type Infrared type Cooling only use  cliler  cliler  ectrical appendices ectrical of prediction on indoor unit) dapter PCB  enector for forced on, forced off) omagnetic use only) arth terminal (3 blocks)	35 50 60  KAPP501A56 KAPP5  upward direction) KHFP5N63  Wired type Brc1D528, B  Infrared type Cooling only use  Cooling only use  cutrical appendices ectrical appendices ectrical appendices ectrical appendices outdoor unit (installation on indoor unit) dapter PCB  nector for forced on, forced off) omagnetic use only) arth terminal (3 blocks)	35   50   60   71     KAFP501A56   KAFP501A80     Upward direction)   KHFP5N63     Wired type   Heat pump use   BRC1D528, BRC1E51A7, BRC1E52A     Infrared type   Heat pump use   BRC7GA53     Cooling only use   DC3302CA51     Oller   DC3301BA51     Ectrical appendices   KRP1BA54     Ectrical appendices   KRP1BA54     Ectrical appendices   KRP4AA52     Ectrical appendices   KRP1BA54     Extractive	35   50   60   71   100	35   50   60   71   100   125     KAFP501A56   KAFP501A80   KAFP501A160     KAFP501A56   KAFP501A80   KAFP501A160     KAFP501A56   KAFP501A80   KAFP501A160     KAFP501A56   KAFP501A80   KAFP501A160     Wired type		

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#### 5 **Dimensional drawings**

#### 5 - 1 **Dimensional Drawings**



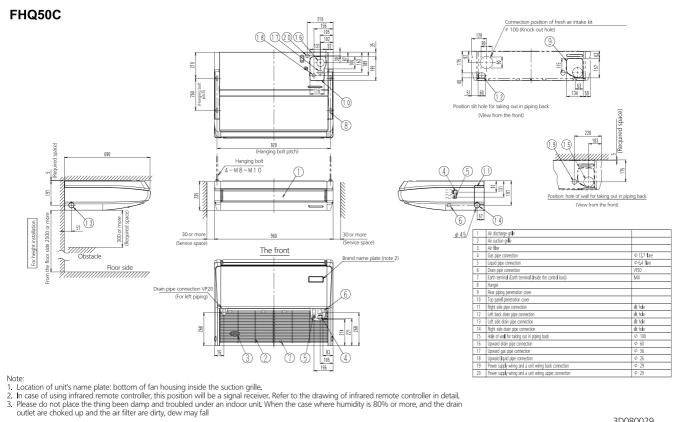
- Note:

  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.

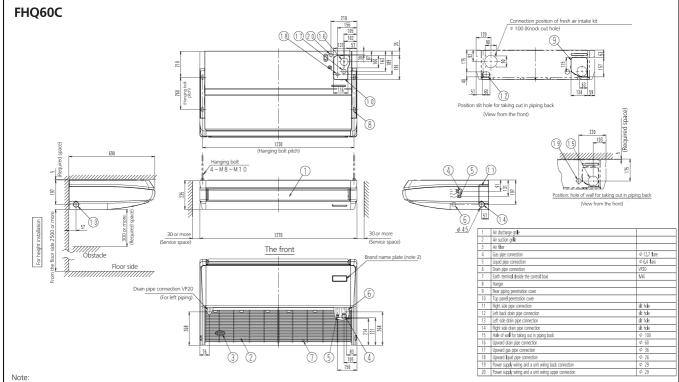
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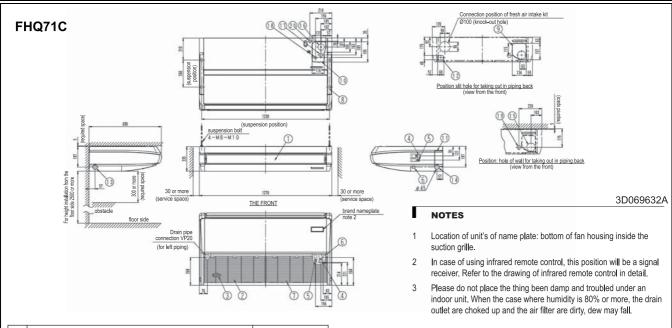
#### **Dimensional drawings**

#### 5 - 1 **Dimensional Drawings**



- Location of unit's name plate: bottom of fan housing inside the suction grille.
   In case of using infrared remote controller, this position will be a signal receiver. Refer to the drawing of infrared remote controller in detail.
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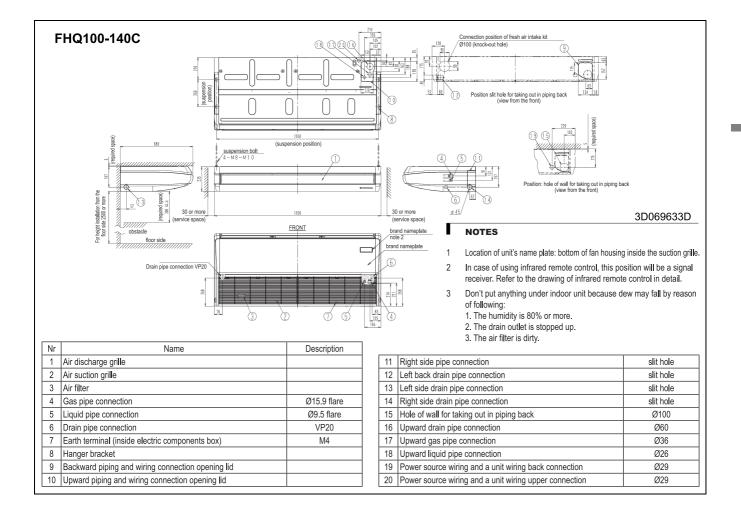


Nr	Name	Description
1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	Ø15.9 flare
5	Liquid pipe connection	Ø9.5 flare
6	Drain pipe connection	VP20
7	Earth terminal (inside electric components box)	M4
8	Hanger bracket	
9	Backward piping and wiring connection opening lid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

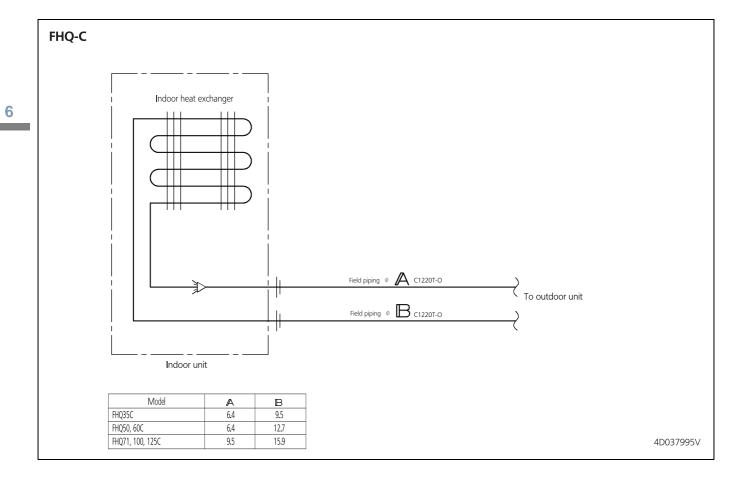
11	Right side pipe connection	slit hole
12	Left back drain pipe connection	slit hole
13	Left side drain pipe connection	slit hole
14	Right side drain pipe connection	slit hole
15	Hole of wall for taking out in piping back	Ø100
16	Upward drain pipe connection	Ø60
17	Upward gas pipe connection	Ø36
18	Upward 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

#### 5 Dimensional drawings

#### 5 - 1 Dimensional Drawings

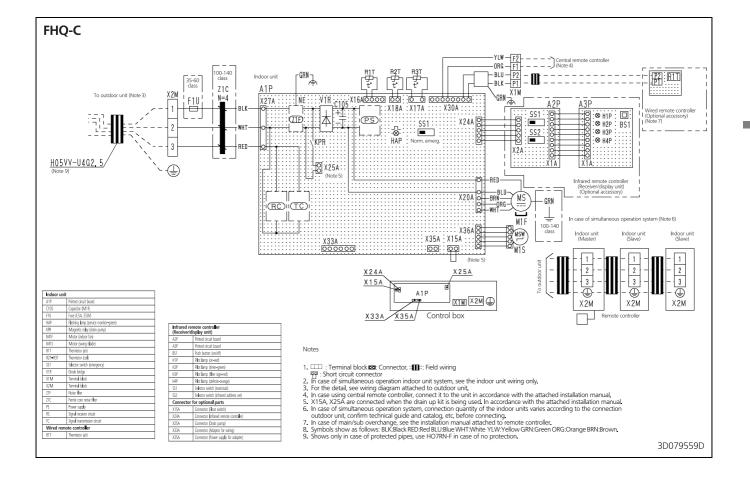


#### **Piping diagrams**Piping Diagrams **6** 6 - 1



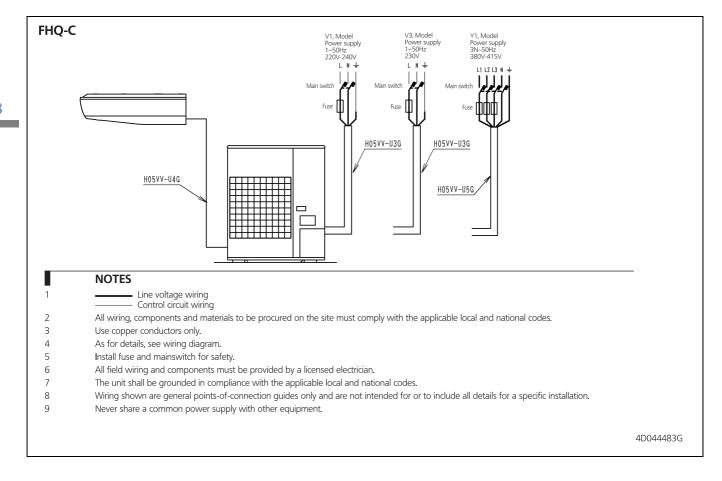
#### 7 Wiring diagrams

#### 7 - 1 Wiring Diagrams - Single Phase



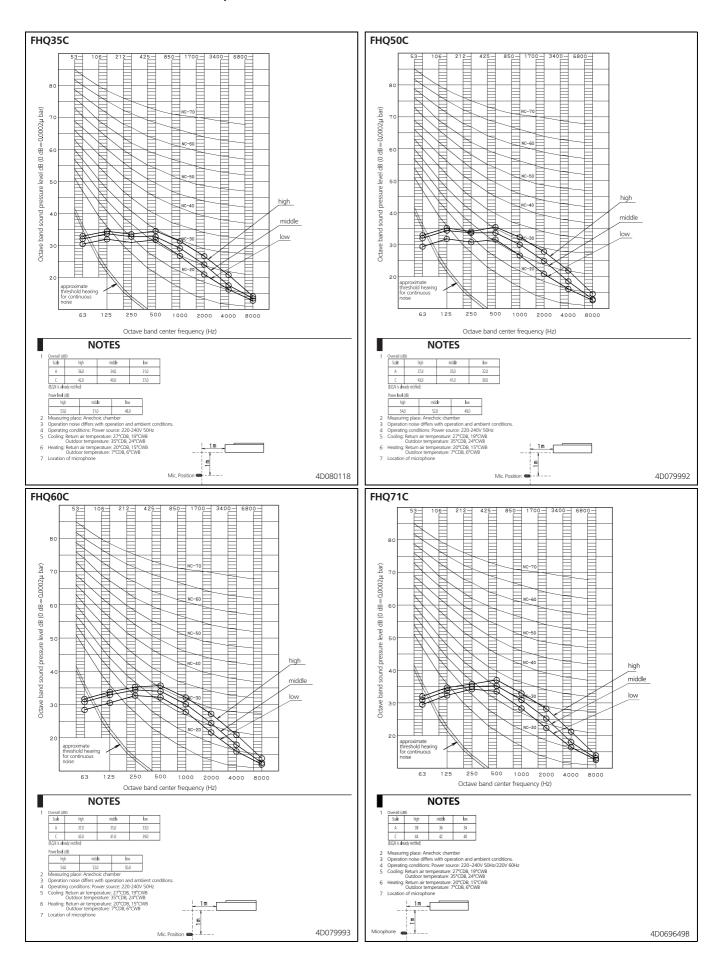
#### 8 External connection diagrams

#### 8 - 1 External Connection Diagrams



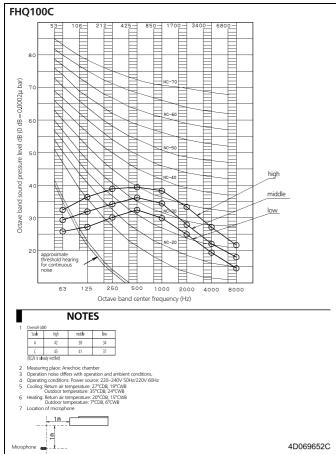
#### 9 Sound data

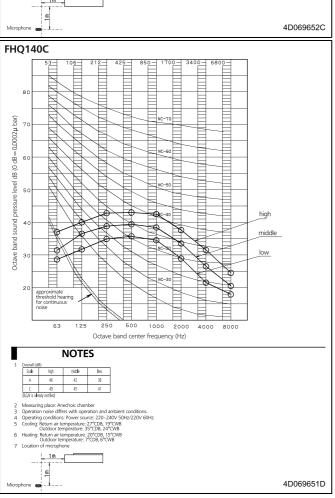
#### 9 - 1 Sound Pressure Spectrum

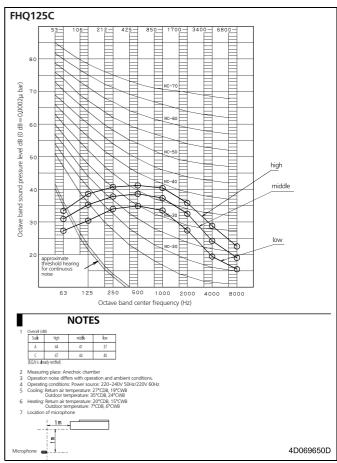


#### 9 Sound data

#### 9 - 1 Sound Pressure Spectrum















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