

**9. CEILING SUSPENSION TYPE  
PACKAGED AIR CONDITIONER**  
**( Split system, Air cooled )**  
**cooling only type**

**FDEN208CEN-S, FDEN208CEP-S, FDEN208CEN  
FDEN208CEP, FDEN258CEN-S, FDEN258CEP-S  
FDEN258CEN, FDEN258CEP, FDEN308CEN  
FDEN308CEP, FDEN308CES, FDEN408CES  
FDEN508CES, FDEN508CEM**

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## 9.1 GENERAL INFORMATION

### 9.1.1 Specific features

- (1) Less refrigerant charge amount due to use of double phase refrigerant flow system. The total refrigerant charge amount has been reduced by more than 50%.
- (2) The indoor outdoor interconnection signal wiring has been done away with. The microcomputer chip is installed in the indoor unit. There is no need for the unit to communicate between the outdoor and indoor units so the unit is more resistant to electromagnetic noise thus the incidence of microcomputer malfunction has been reduced. The compressor in the outdoor unit has its own self protection function, that reacts according to abnormal high pressure and excessive high temperature.
- (3) There are only four power lines between the outdoor and indoor unit. As no signal wire is used there is no need to separate the power line from the signal line. One cable with 4 wires encased in one sheath is enough for conducting the wiring work between the outdoor unit and the indoor unit. This contributes to simpler wiring work in the field.
- (4) The operation modes are only cooling and fan operation for easier control.
- (5) All air supply ports have auto swing louvers. The indoor fan motor has two speeds of high and low.
- (6) The controls are wireless residential split air conditioner type remote controller with 4 malfunction modes.
- (7) All models have control valves protruding from the outdoor unit for faster flare connection work in the field.

#### (8) Simple design

With the model change, the design has been completely renewed. A simple and modern form with curves harmonizes more with the interior. The suction grill also comes in two segments, simplifying the maintenance.

#### (9) Amazingly quiet operation

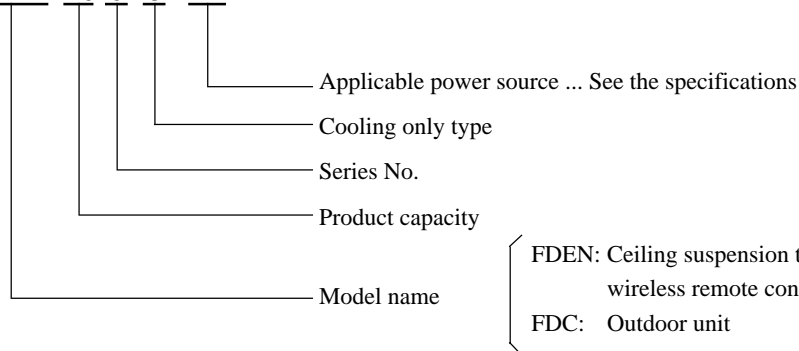
Due to adoption of a newly developed silent stream fan, unpleasant operation sound, such as sound made when the fan runs against the air, has been minimized, thus achieving the trade's lowest noise level in the weak flow mode.

#### (10) "Aerowing" louver

In order to make air conditioning more comfortable, an "aerowing" louver has been newly developed by applying MHI's advanced aerodynamics, leading to improved air directivity and air conditioning feeling. In the auto swing mode, the louver angle is optimum from 0 (level) to 75°, thus distributing the refreshing air evenly throughout your room. By working the remote controller, you can also set the louver angle easily. The sideways blowout angle can also be set manually up to 45° either right or left side.

### 9.1.2 How to read the model name

Example: **FDEN 20 8 C EN**



## 9.2 SELECTION DATA

### 9.2.1 Specifications

Model F DEN208CEN-S

Item	Model	F DEN208CEN-S	
		F DEN208C	F DC208CEN3
Nominal cooling capacity <sup>(1)</sup>	W	5000	
Power source		1 Phase, 220/240V, 50Hz	
Operation data <sup>(3)</sup>	Cooling input	kW	1.77/1.86
	Running current (Cooling)	A	8.2/8.0
	Power factor (Cooling)	%	98/97
	Inrush current (L.R.A)	A	44
	Noise level <sup>(4)</sup>	dB(A)	Hi:43 Lo:38
Exterior dimensions	mm		
Height × Width × Depth		184 × 1000 × 650	690 × 880 × 290
Net weight	kg	22	49
Refrigerant equipment			
Compressor type & Q'ty		–	RM5523GNE4 × 1
Motor	kW	–	1.6
Starting method		–	Line starting
Heat exchanger		Louver fins & inner grooved tubing	Slitted fins & bare tubing
Refrigerant control		Capillary tube	Capillary tube
Refrigerant		R22	
Quantity	kg	Holding charged	0.9 [Pre-charged up to the piping length of 0m]
Refrigerant oil	ℓ	–	0.7 (BARREL FREEZE 32 SAM)
High pressure control		–	
Air handling equipment			
Fan type & Q'ty		Multiblade centrifugal fan × 2	Propeller fan × 1
Motor	W	40 × 1	55 × 1
Starting method		Line starting	Line starting
Air flow (Standard)	CMM	Hi:14 Lo:10	56
Fresh air intake		Unavailable	
Air filter, Q'ty		Polypropylene net × 2 (washable)	
Shock & vibration absorber		Rubber sleeve (for fan motor)	Rubber mount (for compressor)
Electric heater	W	–	20 (Crank case heater)
Operation control			
Operation switch		Wireless remote control switch	– (Indoor unit side)
Room temperature control		Thermostat by electronics	–
Safety equipment			
		Internal thermostat for fan motor. Frost protection thermostat.	Internal thermostat for fan motor. Thermostat for discharge temperature.
Installation data	mm		
Refrigerant piping size	(in)	Liquid line: φ6.35 (1/4") Gas line: φ15.88 (5/8")	
Connecting method		Flare piping	
Drain hose		(Connectable with VP20)	–
Insulation for piping		Necessary (both Liquid & Gas lines)	
Accessories		Mounting kit. Wireless remote controller.	
Optional parts		–	

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Operation					
Cooling	27°C	19°C	35°C	24°C	ISO-T1, JIS B8616

- (2) This packaged air conditioner is manufactured and tested in conformity with the following standard.  
JIS B8616 "UNITARY AIR CONDITIONERS"
- (3) The operation data indicate when the air conditioner is operated at 220V and 240V respectively.
- (4) Indicates the value at mild mode.

**Model FDEN208CEP-S**

Item	Model	FDEN208CEP-S	
		FDEN208C	FDC208CEP3
<b>Nominal cooling capacity<sup>(1)</sup></b>	W	<b>5200</b>	
<b>Power source</b>		<b>1 Phase, 220V, 60Hz</b>	
<b>Operation data<sup>(3)</sup></b>	Cooling input	kW	1.76
	Running current (Cooling)	A	8.3
	Power factor (Cooling)	%	96
	Inrush current (L.R.A)	A	52
	Noise level <sup>(4)</sup>	dB(A)	Hi:44 Lo:39
<b>Exterior dimensions</b>			
<b>Height × Width × Depth</b>	mm	<b>184 × 1000 × 650</b>	<b>690 × 880 × 290</b>
<b>Net weight</b>	kg	<b>22</b>	<b>49</b>
<b>Refrigerant equipment</b>			
<b>Compressor type &amp; Q'ty</b>		–	<b>RM5520GP4 × 1</b>
Motor	kW	–	<b>1.6</b>
Starting method		–	Line starting
<b>Heat exchanger</b>		Louver fins & inner grooved tubing	Slitted fins & bare tubing
Refrigerant control		Capillary tube	Capillary tube
<b>Refrigerant</b>			<b>R22</b>
<b>Quantity</b>	kg	<b>Holding charged</b>	<b>0.9 [Pre-charged up to the piping length of 0m]</b>
<b>Refrigerant oil</b>	ℓ	–	<b>0.7 (BARREL FREEZE 32 SAM)</b>
High pressure control			–
<b>Air handling equipment</b>			
Fan type & Q'ty		Multiblade centrifugal fan × 2	Propeller fan × 1
Motor	W	40 × 1	55 × 1
Starting method		Line starting	Line starting
<b>Air flow (Standard)</b>	<b>CMM</b>	<b>Hi:14 Lo:10</b>	<b>56</b>
<b>Fresh air intake</b>		Unavailable	–
Air filter, Q'ty		Polypropylene net × 2 (washable)	–
Shock & vibration absorber		Rubber sleeve (for fan motor)	Rubber mount (for compressor)
Electric heater	W	–	20 (Crank case heater)
<b>Operation control</b>			
Operation switch		Wireless remote control switch	– (Indoor unit side)
Room temperature control		Thermostat by electronics	–
<b>Safety equipment</b>		Internal thermostat for fan motor. Frost protection thermostat.	Internal thermostat for fan motor. Thermostat for discharge temperature.
<b>Installation data</b>			
<b>Refrigerant piping size</b>	<b>mm (in)</b>	<b>Liquid line: φ6.35 (1/4") Gas line: φ15.88 (5/8")</b>	
<b>Connecting method</b>		<b>Flare piping</b>	
<b>Drain hose</b>		(Connectable with VP20)	–
Insulation for piping		Necessary (both Liquid & Gas lines)	
Accessories		Mounting kit. Wireless remote controller.	
Optional parts		–	

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling	27°C	19°C	35°C	24°C	ISO-T1, JIS B8616

(2) This packaged air conditioner is manufactured and tested in conformity with the following standard.

JIS B8616 "UNITARY AIR CONDITIONERS"

(3) The operation data indicate when the air conditioner is operated at 220V.

(4) Indicates the value at mild mode.

## Model FDEN258CEN-S

Item		Model	FDEN258CEN-S	
			FDEN258C	FDC258CEN3
<b>Nominal cooling capacity<sup>(1)</sup></b>		W	<b>5700</b>	
<b>Power source</b>			<b>1 Phase, 220/240V, 50Hz</b>	
<b>Operation data<sup>(3)</sup></b>	Cooling input	kW	2.04/2.15	
	Running current (Cooling)	A	9.4/9.4	
	Power factor (Cooling)	%	99/95	
	Inrush current (L.R.A)	A	51	
	Noise level <sup>(4)</sup>	dB(A)	Hi:44 Lo:39	52
<b>Exterior dimensions</b>				
<b>Height × Width × Depth</b>		mm	<b>184 × 1260 × 650</b>	<b>845 × 880 × 340</b>
<b>Net weight</b>		kg	<b>27</b>	<b>55</b>
<b>Refrigerant equipment</b>				
<b>Compressor type &amp; Q'ty</b>			-	<b>RM5526GNE4 × 1</b>
Motor		kW	-	<b>1.9</b>
Starting method			-	Line starting
<b>Heat exchanger</b>			Louver fins & inner grooved tubing	Slitted fins & bare tubing
Refrigerant control			Capillary tube	Capillary tube
<b>Refrigerant</b>			<b>R22</b>	
<b>Quantity</b>		kg	<b>Holding charged</b>	<b>1.05 [Pre-charged up to the piping length of 5m]</b>
<b>Refrigerant oil</b>		ℓ	-	<b>0.7 (BARREL FREEZE 32 SAM)</b>
High pressure control			-	
<b>Air handling equipment</b>				
Fan type & Q'ty			Multiblade centrifugal fan × 4	Propeller fan × 1
Motor		W	25 × 2	55 × 1
Starting method			Line starting	Line starting
<b>Air flow (Standard)</b>		<b>CMM</b>	<b>Hi:16 Lo:10.5</b>	<b>56</b>
<b>Fresh air intake</b>			Unavailable	-
Air filter, Q'ty			Polypropylene net × 2 (washable)	-
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber mount (for compressor)
Electric heater		kW	-	20 (Cank case heater)
<b>Operation control</b>				
Operation switch			Wireless remote control switch	- (Indoor unit side)
Room temperature control			Thermostat by electronics	-
<b>Safety equipment<sup>(4)</sup></b>			Internal thermostat for fan motor. Frost protection thermostat.	Internal thermostat for fan motor. Thermostat for discharge temperature.
<b>Installation data</b>		mm	<b>Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")</b>	
<b>Refrigerant piping size</b>		(in)		
<b>Connecting method</b>			<b>Flare piping</b>	
<b>Drain hose</b>			(Connectable with VP20)	-
Insulation for piping			Necessary (both Liquid & Gas lines)	
Accessories			Mounting kit. Wireless remote controller.	
Optional parts			-	

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Operation					
Cooling	27°C	19°C	35°C	24°C	ISO-T1, JIS B8616

(2) This packaged air conditioner is manufactured and tested in conformity with the following standard.

JIS B8616 "UNITARY AIR CONDITIONERS"

(3) The operation data indicate when the air conditioner is operated at 220V and 240V respectively.

(4) Indicates the value at mild mode.

**Model FDEN258CEP-S**

Item		Model	FDEN258CEP-S	
			FDEN258C	FDC258CEP3
<b>Nominal cooling capacity<sup>(1)</sup></b>		W	<b>6200</b>	
<b>Power source</b>			<b>1 Phase, 220V, 60Hz</b>	
<b>Operation data<sup>(3)</sup></b>	Cooling input	kW	2.77	
	Running current (Cooling)	A	12.8	
	Power factor (Cooling)	%	98	
	Inrush current (L.R.A)	A	71	
	Noise level <sup>(4)</sup>	dB(A)	Hi:45 Lo:40	52
<b>Exterior dimensions</b>				
<b>Height × Width × Depth</b>		mm	<b>184 × 1260 × 650</b>	<b>845 × 880 × 340</b>
<b>Net weight</b>		kg	<b>27</b>	<b>55</b>
<b>Refrigerant equipment</b>				
<b>Compressor type &amp; Q'ty</b>			–	<b>RM5526GP4 × 1</b>
Motor		kW	–	<b>1.9</b>
Starting method			–	Line starting
<b>Heat exchanger</b>			Louver fins & inner grooved tubing	Slitted fins & bare tubing
Refrigerant control			Capillary tube	Capillary tube
<b>Refrigerant</b>			<b>R22</b>	
<b>Quantity</b>		kg	<b>Holding charged</b>	<b>1.31 [Pre-charged up to the piping length of 5m]</b>
<b>Refrigerant oil</b>		ℓ	–	<b>0.7 (BARREL FREEZE 32 SAM)</b>
High pressure control				–
<b>Air handling equipment</b>				
Fan type & Q'ty			Multiblade centrifugal fan × 4	Propeller fan × 1
Motor		W	25 × 2	55 × 1
Starting method			Line starting	Line starting
<b>Air flow (Standard)</b>		<b>CMM</b>	<b>Hi:16 Lo:10.5</b>	<b>56</b>
<b>Fresh air intake</b>			Unavailable	–
Air filter, Q'ty			Polypropylene net × 2 (washable)	–
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber mount (for compressor)
Electric heater		W	–	20 (Cank case heater)
<b>Operation control</b>				
Operation switch			Wireless remote control switch	– (Indoor unit side)
Room temperature control			Thermostat by electronics	–
<b>Safety equipment</b>			Internal thermostat for fan motor. Frost protection thermostat.	Internal thermostat for fan motor. Thermostat for discharge temperature.
<b>Installation data</b>		mm	<b>Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")</b>	
<b>Refrigerant piping size</b>		(in)		
<b>Connecting method</b>			<b>Flare piping</b>	
<b>Drain hose</b>			(Connectable with VP20)	–
Insulation for piping			Necessary (both Liquid & Gas lines)	
Accessories			Mounting kit. Wireless remote controller.	
Optional parts			–	

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Operation Cooling	27°C	19°C	35°C	24°C	ISO-T1, JIS B8616

(2) This packaged air conditioner is manufactured and tested in conformity with the following standard.

JIS B8616 "UNITARY AIR CONDITIONERS"

(3) The operation data indicate when the air conditioner is operated at 220V.

(4) Indicates the value at mild mode.

## Model FDEN208CEN

Item		Model		FDEN208CEN	
				FDEN208C	FDC206CEN3
<b>Nominal cooling capacity<sup>(1)</sup></b>	ISO-T1	W	<b>5000</b>		
	ISO-T3		<b>4100</b>		
<b>Power source</b>		<b>1 Phase, 220/240V, 50Hz</b>			
<b>Operation data<sup>(3)</sup></b>	ISO-T1	Cooling input	kW		2.08/2.11
		Running current (Cooling)	A		9.9/9.7
		Power factor (Cooling)	%		96/91
	ISO-T3	Cooling input	kW		2.34/2.36
		Running current (Cooling)	A		11.0/10.8
		Power factor (Cooling)	%		97/91
	Inrush current (L.R.A)		A		47
Noise level <sup>(4)</sup>		dB(A)		Hi:43 Lo:38      59	
<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>		mm		<b>184 × 1000 × 650</b>	<b>615 × 850 × 290 + 30</b>
<b>Net weight</b>		kg		<b>22</b>	<b>55</b>
<b>Refrigerant equipment</b>					
<b>Compressor type &amp; Q'ty</b>				-	<b>RC5520ENE1 × 1</b>
Motor		kW		-	<b>1.49</b>
Starting method				-	Line starting
<b>Heat exchanger</b>				Louver fins & inner grooved tubing	Slitted fines & bare tubing
Refrigerant control				Capillary tube	Capillary tube
<b>Refrigerant</b>		<b>R22</b>			
<b>Quantity</b>		kg		<b>Holding charged</b>	<b>0.9 [Pre-charged up to the piping length of 5m]</b>
<b>Refrigerant oil</b>		ℓ		-	<b>1.63 (SUNISO 3GS)</b>
High pressure control		High pressure regulator valve			
<b>Air handling equipment</b>					
Fan type & Q'ty				Multiblade centrifugal fan × 2	Propeller fan × 1
Motor		W		40 × 1	55 × 1
Starting method				Line starting	Line starting
<b>Air flow (Standard)</b>		CMM		<b>Hi:14 Lo:10</b>	<b>42</b>
<b>Fresh air intake</b>					
Air filter, Q'ty				Polypropylene net × 2 (washable)	-
Shock & vibration absorber				Rubber sleeve (for fan motor)	Rubber mount (for compressor)
Electric heater		W		-	-
<b>Operation control</b>					
Operation switch				Wireless remote control switch	- (Indoor unit side)
Room temperature control				Thermostat by electronics	-
<b>Safety equipment</b>					
				Internal thermostat for fan motor. Frost protection thermostat.	Internal protector for compressor. Internal thermostat for fan motor. Internal Pressure relief valve for compressor.
<b>Installation data</b>		mm		<b>Liquid line: φ6.35 (1/4") Gas line: φ15.88 (5/8")</b>	
<b>Refrigerant piping size</b>		(in)			
<b>Connecting method</b>		<b>Flare piping</b>			
<b>Drain hose</b>				(Connectable with VP20)	-
Insulation for piping		Necessary (both Liquid & Gas lines)			
Accessories		Mounting kit. Wireless remote controller.			
Optional parts		-			

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Operation Cooling	27°C	19°C	35°C	24°C	ISO-T1, JIS B8616
	29°C	19°C	46°C	24°C	ISO-T3, SASO

(2) This packaged air conditioner is manufactured and tested in conformity with the following standard.

JIS B8616 "UNITARY AIR CONDITIONERS"

(3) The operation data indicate when the air conditioner is operated at 220V and 240V respectively.

(4) Indicates the value at mild mode.



**Model FDEN208CEP**

Item		Model		FDEN208CEP	
				FDEN208C	FDC206CEP
<b>Nominal cooling capacity<sup>(1)</sup></b>	ISO-T1	W	5200		
	ISO-T3		4500		
<b>Power source</b>		1 Phase, 220V, 60Hz			
<b>Operation data<sup>(3)</sup></b>	ISO-T1	Cooling input	kW	2.06	
		Running current (Cooling)	A	9.6	
		Power factor (Cooling)	%	98	
	ISO-T3	Cooling input	kW	2.32	
		Running current (Cooling)	A	10.9	
		Power factor (Cooling)	%	97	
		Inrush current (L.R.A)	A	50	
	Noise level <sup>(4)</sup>	dB(A)	Hi:44 Lo:39	59	
<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>		mm	184 × 1000 × 650		615 × 850 × 290 + 30
<b>Net weight</b>		kg	22		44
<b>Refrigerant equipment</b>					
<b>Compressor type &amp; Q'ty</b>			-		RC5520EPE1 × 1
Motor		kW	-		1.31
Starting method			-		Line starting
<b>Heat exchanger</b>			Louver fins & inner grooved tubing		Slitted fins & bare tubing
Refrigerant control			Capillary tube		Capillary tube
<b>Refrigerant</b>			R22		
<b>Quantity</b>		kg	Holding charged		1.15 [Pre-charged up to the piping length of 5m]
<b>Refrigerant oil</b>		ℓ	-		1.63 (SUNISO 3GS)
High pressure control			High pressure regulator valve		
<b>Air handling equipment</b>					
Fan type & Q'ty			Multiblade centrifugal fan × 2		Propeller fan × 1
Motor		W	40 × 1		55 × 1
Starting method			Line starting		Line starting
<b>Air flow (Standard)</b>		CMM	Hi:14 Lo:10		44
<b>Fresh air intake</b>			Unavailable		-
Air filter, Q'ty			Polypropylene net × 2 (washable)		-
Shock & vibration absorber			Rubber sleeve (for fan motor)		Rubber mount (for compressor)
Electric heater		W	-		-
<b>Operation control</b>					
Operation switch			Wireless remote control switch		- (Indoor unit side)
Room temperature control			Thermostat by electronics		-
<b>Safety equipment</b>			Internal thermostat for fan motor. Frost protection thermostat.		Internal protector for compressor. Internal thermostat for fan motor. Internal Pressure relief valve for compressor.
<b>Installation data</b>		mm	Liquid line: φ6.35 (1/4") Gas line: φ15.88 (5/8")		
<b>Refrigerant piping size</b>		(in)			
<b>Connecting method</b>			Flare piping		
<b>Drain hose</b>			(Connectable with VP20)		-
Insulation for piping			Necessary (both Liquid & Gas lines)		
Accessories			Mounting kit. Wireless remote controller.		
Optional parts			-		

Notes (1) The data are measured at the following conditions.

Operation	Item	Indoor air temperature		Outdoor air temperature		Standards
		DB	WB	DB	WB	
Cooling		27°C	19°C	35°C	24°C	ISO-T1, JIS B8616
		29°C	19°C	46°C	24°C	ISO-T3, SASO

- (2) This packaged air conditioner is manufactured and tested in conformity with the following standard.  
JIS B8616 "UNITARY AIR CONDITIONERS"
- (3) The operation data indicate when the air conditioner is operated at 220V.
- (4) Indicates the value at mild mode.

## Model FDEN258CEN

Item		Model		FDEN258CEN	
				FDEN258C	FDC256CEN3
<b>Nominal cooling capacity<sup>(1)</sup></b>	ISO-T1	W	<b>5900</b>		
	ISO-T3		<b>4900</b>		
<b>Power source</b>		<b>1 Phase, 220/240V, 50Hz</b>			
<b>Operation data<sup>(3)</sup></b>	ISO-T1	Cooling input	kW	2.58/2.62	
		Running current (Cooling)	A	12.6/13.2	
		Power factor (Cooling)	%	93/83	
	ISO-T3	Cooling input	kW	2.76/2.80	
		Running current (Cooling)	A	13.4/14.0	
		Power factor (Cooling)	%	94/83	
	Inrush current (L.R.A)		A	64	
	Noise level <sup>(4)</sup>		dB(A)	Hi:44 Lo:37	59
<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>		<b>mm</b>	<b>184 × 1260 × 650</b>		<b>615 × 850 × 290 + 30</b>
<b>Net weight</b>		<b>kg</b>	<b>27</b>		<b>55</b>
<b>Refrigerant equipment</b>					
<b>Compressor type &amp; Q'ty</b>			-		<b>RC5527ENE1 × 1</b>
Motor		kW	-		<b>1.87</b>
Starting method			-		Line starting
<b>Heat exchanger</b>			Louver fins & inner grooved tubing		Slitted fins & bare tubing
Refrigerant control			Capillary tube		Capillary tube
<b>Refrigerant</b>			<b>R22</b>		
<b>Quantity</b>		<b>kg</b>	<b>Holding charged</b>		<b>1.35 [Pre-charged up to the piping length of 5m]</b>
<b>Refrigerant oil</b>		<i>ℓ</i>	-		<b>1.63 (SUNISO 3GS)</b>
High pressure control			High pressure regulator valve		
<b>Air handling equipment</b>					
Fan type & Q'ty			Multiblade centrifugal fan × 4		Propeller fan × 1
Motor		W	25 × 2		55 × 1
Starting method			Line starting		Line starting
<b>Air flow (Standard)</b>		<b>CMM</b>	<b>Hi:16 Lo:10.5</b>		<b>42</b>
<b>Fresh air intake</b>			Unavailable		-
Air filter, Q'ty			Polypropylene net × 2 (washable)		-
Shock & vibration absorber			Rubber sleeve (for fan motor)		Rubber mount (for compressor)
Electric heater		W	-		-
<b>Operation control</b>					
Operation switch			Wireless remote control switch		- (Indoor unit side)
Room temperature control			Thermostat by electronics		-
<b>Safety equipment</b>			Internal thermostat for fan motor. Frost protection thermostat.		Internal protector for compressor. Internal thermostat for fan motor. Internal Pressure relief valve for compressor.
<b>Installation data</b>		<b>mm</b>	<b>Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")</b>		
<b>Refrigerant piping size</b>		<b>(in)</b>			
<b>Connecting method</b>			<b>Flare piping</b>		
<b>Drain hose</b>			(Connectable with VP20)		-
Insulation for piping			Necessary (both Liquid & Gas lines)		
Accessories			Mounting kit. Wireless remote controller.		
Optional parts			-		

Notes (1) The data are measured at the following conditions.

Operation	Item	Indoor air temperature		Outdoor air temperature		Standards
		DB	WB	DB	WB	
Cooling		27°C	19°C	35°C	24°C	ISO-T1, JIS B8616
		29°C	19°C	46°C	24°C	ISO-T3, SASO

- (2) This packaged air conditioner is manufactured and tested in conformity with the following standard.  
JIS B8616 "UNITARY AIR CONDITIONERS"
- (3) The operation data indicate when the air conditioner is operated at 220V and 240V respectively.
- (4) Indicates the value at mild mode.

**Model FDEN258CEP**

Item		Model		FDEN258CEP		
		FDEN258C		FDC256CEP3		
<b>Nominal cooling capacity<sup>(1)</sup></b>	ISO-T1	W	6200			
	ISO-T3		5200			
<b>Power source</b>			1 Phase, 220V, 60Hz			
<b>Operation data<sup>(3)</sup></b>	ISO-T1	Cooling input	kW	2.68		
		Running current (Cooling)	A	12.4		
		Power factor (Cooling)	%	98		
	ISO-T3	Cooling input	kW	3.06		
		Running current (Cooling)	A	14.4		
		Power factor (Cooling)	%	97		
		Inrush current (L.R.A)	A	66		
		Noise level <sup>(4)</sup>	dB(A)	Hi:45 Lo:40	59	
	<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>		mm	184 × 1260 × 650		615 × 850 × 290 + 30	
<b>Net weight</b>		kg	27		56	
<b>Refrigerant equipment</b>						
<b>Compressor type &amp; Q'ty</b>			-		RC5528EPE1 × 1	
	Motor	kW	-		1.68	
	Starting method		-		Line starting	
<b>Heat exchanger</b>			Louver fins & inner grooved tubing		Slitted fins & bare tubing	
	Refrigerant control		Capillary tube		Capillary tube	
<b>Refrigerant</b>			R22			
	Quantity	kg	Holding charged		1.35 [Pre-charged up to the piping length of 5m]	
	Refrigerant oil	ℓ	-		1.63 (SUNISO 3GS)	
	High pressure control		High pressure regulator valve			
<b>Air handling equipment</b>						
	Fan type & Q'ty		Multiblade centrifugal fan × 4		Propeller fan × 1	
	Motor	W	25 × 2		55 × 1	
	Starting method		Line starting		Line starting	
	<b>Air flow (Standard)</b>	CMM	Hi:16 Lo:10.5		44	
	<b>Fresh air intake</b>		Unavailable		-	
	Air filter, Q'ty		Polypropylene net × 2 (washable)		-	
	Shock & vibration absorber		Rubber sleeve (for fan motor)		Rubber mount (for compressor)	
	Electric heater	W	-		-	
<b>Operation control</b>						
	Operation switch		Wireless remote control switch		- (Indoor unit side)	
	Room temperature control		Thermostat by electronics		-	
<b>Safety equipment</b>			Internal thermostat for fan motor. Frost protection thermostat.		Internal protector for compressor. Internal thermostat for fan motor. Internal Pressure relief valve for compressor.	
<b>Installation data</b>		mm	Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")			
<b>Refrigerant piping size</b>		(in)				
<b>Connecting method</b>			Flare piping			
	<b>Drain hose</b>		(Connectable with VP20)		-	
	Insulation for piping		Necessary (both Liquid & Gas lines)			
	Accessories		Mounting kit. Wireless remote controller.			
	Optional parts		-			

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling	27°C	19°C	35°C	24°C	ISO-T1, JIS B8616
	29°C	19°C	46°C	24°C	ISO-T3, SASO

(2) This packaged air conditioner is manufactured and tested in conformity with the following standard.

JIS B8616 "UNITARY AIR CONDITIONERS"

(3) The operation data indicate when the air conditioner is operated at 220V.

(4) Indicates the value at mild mode.

## Model FDEN308CEN

Item		Model		FDEN308CEN	
				FDEN308C	FDC306CEN3
<b>Nominal cooling capacity<sup>(1)</sup></b>	ISO-T1	W	<b>7100</b>		
	ISO-T3		<b>5700</b>		
<b>Power source</b>		<b>1 Phase, 220/240V, 50Hz</b>			
<b>Operation data<sup>(3)</sup></b>	ISO-T1	Cooling input	kW	3.08/3.12	
		Running current (Cooling)	A	15.6/16.3	
		Power factor (Cooling)	%	90/80	
	ISO-T3	Cooling input	kW	3.27/3.31	
		Running current (Cooling)	A	16.6/17.3	
		Power factor (Cooling)	%	90/80	
		Inrush current (L.R.A)	A	89	
	Noise level <sup>(4)</sup>	dB(A)	Hi:45 Lo:39	56	
<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>		<b>mm</b>	<b>184 × 1260 × 650</b>		<b>844 × 950 × 340</b>
<b>Net weight</b>		<b>kg</b>	<b>27</b>		<b>67</b>
<b>Refrigerant equipment</b>					
<b>Compressor type &amp; Q'ty</b>			-		<b>RC5532ENE1 × 1</b>
Motor		kW	-		<b>2.24</b>
Starting method			-		Line starting
<b>Heat exchanger</b>			Louver fins & inner grooved tubing		Slitted fins & bare tubing
Refrigerant control			Capillary tube		Capillary tube
<b>Refrigerant</b>			<b>R22</b>		
<b>Quantity</b>		<b>kg</b>	<b>Holding charged</b>		<b>1.3 [Pre-charged up to the piping length of 5m]</b>
<b>Refrigerant oil</b>		<i>ℓ</i>	-		<b>1.63 (SUNISO 3GS)</b>
High pressure control			High pressure regulator valve		
<b>Air handling equipment</b>					
Fan type & Q'ty			Multiblade centrifugal fan × 4		Propeller fan × 1
Motor		W	35 × 2		60 × 1
Starting method			Line starting		Line starting
<b>Air flow (Standard)</b>		<b>CMM</b>	<b>Hi:16.5 Lo:11.5</b>		<b>54</b>
<b>Fresh air intake</b>			Unavailable		-
Air filter, Q'ty			Polypropylene net × 2 (washable)		-
Shock & vibration absorber			Rubber sleeve (for fan motor)		Rubber mount (for compressor)
Electric heater		W	-		-
<b>Operation control</b>					
Operation switch			Wireless remote control switch		- (Indoor unit side)
Room temperature control			Thermostat by electronics		-
<b>Safety equipment</b>			Internal thermostat for fan motor. Frost protection thermostat.		Internal protector for compressor. Internal thermostat for fan motor. Internal Pressure relief valve for compressor.
<b>Installation data</b>		<b>mm</b>	<b>Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")</b>		
<b>Refrigerant piping size</b>		<b>(in)</b>			
<b>Connecting method</b>			<b>Flare piping</b>		
<b>Drain hose</b>			(Connectable with VP20)		-
Insulation for piping			Necessary (both Liquid & Gas lines)		
Accessories			Mounting kit. Wireless remote controller.		
Optional parts			-		

Notes (1) The data are measured at the following conditions.

Operation	Item	Indoor air temperature		Outdoor air temperature		Standards
		DB	WB	DB	WB	
Cooling		27°C	19°C	35°C	24°C	ISO-T1, JIS B8616
		29°C	19°C	46°C	24°C	ISO-T3, SASO

- (2) This packaged air conditioner is manufactured and tested in conformity with the following standard.  
JIS B8616 "UNITARY AIR CONDITIONERS"
- (3) The operation data indicate when the air conditioner is operated at 220V and 240V respectively.
- (4) Indicates the value at mild mode.

**Model FDEN308CEP**

Item		Model		FDEN308CEP		
		FDEN308C		FDC306CEP3		
<b>Nominal cooling capacity<sup>(1)</sup></b>	ISO-T1	W	7100			
	ISO-T3		5700			
<b>Power source</b>		1 Phase, 220V, 60Hz				
<b>Operation data<sup>(3)</sup></b>	ISO-T1	Cooling input	kW	3.05		
		Running current (Cooling)	A	14.2		
		Power factor (Cooling)	%	98		
	ISO-T3	Cooling input	kW	3.28		
		Running current (Cooling)	A	15.3		
		Power factor (Cooling)	%	97		
		Inrush current (L.R.A)	A	78		
		Noise level <sup>(4)</sup>	dB(A)	Hi:46 Lo:40	59	
	<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>		mm	184 × 1260 × 650		844 × 950 × 340	
<b>Net weight</b>		kg	27		67	
<b>Refrigerant equipment</b>						
<b>Compressor type &amp; Q'ty</b>			-		RC5533EPE1 × 1	
	Motor	kW	-		1.87	
	Starting method		-		Line starting	
<b>Heat exchanger</b>			Louver fins & inner grooved tubing		Slitted fins & bare tubing	
	Refrigerant control		Capillary tube		Capillary tube	
<b>Refrigerant</b>			R22			
	Quantity	kg	Holding charged		1.3 [Pre-charged up to the piping length of 5m]	
	Refrigerant oil	ℓ	-		1.63 (SUNISO 3GS)	
	High pressure control		High pressure regulator valve			
<b>Air handling equipment</b>						
	Fan type & Q'ty		Multiblade centrifugal fan × 4		Propeller fan × 1	
	Motor	W	35 × 2		60 × 1	
	Starting method		Line starting		Line starting	
	<b>Air flow (Standard)</b>	CMM	Hi:16.5 Lo:11.5		56	
	<b>Fresh air intake</b>		Unavailable		-	
	Air filter, Q'ty		Polypropylene net × 2 (washable)		-	
	Shock & vibration absorber		Rubber sleeve (for fan motor)		Rubber mount (for compressor)	
	Electric heater	W	-		-	
<b>Operation control</b>						
	Operation switch		Wireless remote control switch		- (Indoor unit side)	
	Room temperature control		Thermostat by electronics		-	
<b>Safety equipment</b>			Internal thermostat for fan motor. Frost protection thermostat.		Internal protector for compressor. Internal thermostat for fan motor. Internal Pressure relief valve for compressor.	
<b>Installation data</b>		mm	Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")			
<b>Refrigerant piping size</b>		(in)				
<b>Connecting method</b>			Flare piping			
	<b>Drain hose</b>		(Connectable with VP20)		-	
	Insulation for piping		Necessary (both Liquid & Gas lines)			
	Accessories		Mounting kit. Wireless remote controller.			
	Optional parts		-			

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling	27°C	19°C	35°C	24°C	ISO-T1, JIS B8616
	29°C	19°C	46°C	24°C	ISO-T3, SASO

(2) This packaged air conditioner is manufactured and tested in conformity with the following standard.

JIS B8616 "UNITARY AIR CONDITIONERS"

(3) The operation data indicate when the air conditioner is operated at 220V.

(4) Indicates the value at mild mode.

## Model FDEN308CES

Item		Model		FDEN308CES	
				FDEN308C	FDC306CES3
<b>Nominal cooling capacity<sup>(1)</sup></b>	ISO-T1	W	<b>7100/7700</b>		
	ISO-T3		<b>5700/6000</b>		
<b>Power source</b>		<b>3 Phase, 380-415V 50Hz or 380V 50Hz/415V 50Hz, 380V 60Hz</b>			
<b>Operation data<sup>(3)</sup></b>	ISO-T1	Cooling input	kW		2.84/2.85/3.37
		Running current (Cooling)	A		5.3/5.3/6.1
		Power factor (Cooling)	%		81/75/84
	ISO-T3	Cooling input	kW		3.03/3.04/3.60
		Running current (Cooling)	A		5.7/5.7/6.6
		Power factor (Cooling)	%		81/74/83
	Inrush current (L.R.A)		A		43
Noise level <sup>(4)</sup>		dB(A)		Hi:45/46 Lo:39/40	59
<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>		mm		<b>184 × 1260 × 650</b>	<b>844 × 950 × 340</b>
<b>Net weight</b>		kg		<b>27</b>	<b>67</b>
<b>Refrigerant equipment</b>					
<b>Compressor type &amp; Q'ty</b>				–	<b>RC5538ESE1 × 1</b>
Motor		kW		–	<b>2.24</b>
Starting method				–	Line starting
<b>Heat exchanger</b>				Louver fins & inner grooved tubing	Slitted fins & bare tubing
Refrigerant control				Capillary tube	Capillary tube
<b>Refrigerant</b>		<b>R22</b>			
<b>Quantity</b>		kg		<b>Holding charged</b>	<b>1.3 [Pre-charged up to the piping length of 5m]</b>
<b>Refrigerant oil</b>		ℓ		–	<b>1.63 (SUNISO 3GS)</b>
High pressure control		High pressure regulator valve			
<b>Air handling equipment</b>					
Fan type & Q'ty				Multiblade centrifugal fan × 4	Propeller fan × 1
Motor		W		35 × 2	60 × 1
Starting method				Line starting	Line starting
<b>Air flow (Standard)</b>		CMM		<b>Hi:16.5 Lo:11.5</b>	<b>54/56</b>
<b>Fresh air intake</b>					
		Unavailable			
Air filter, Q'ty		Polypropylene net × 2 (washable)			
Shock & vibration absorber		Rubber sleeve (for fan motor)			
Electric heater		W		–	–
<b>Operation control</b>					
Operation switch				Wireless remote control switch	– (Indoor unit side)
Room temperature control				Thermostat by electronics	–
<b>Safety equipment</b>					
				Internal thermostat for fan motor. Frost protection thermostat.	Internal protector for compressor. Internal thermostat for fan motor. Internal Pressure relief valve for compressor.
<b>Installation data</b>		mm		<b>Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")</b>	
<b>Refrigerant piping size</b>		mm (in)			
<b>Connecting method</b>		<b>Flare piping</b>			
<b>Drain hose</b>				(Connectable with VP20)	–
Insulation for piping		Necessary (both Liquid & Gas lines)			
Accessories		Mounting kit. Wireless remote controller.			
Optional parts		–			

Notes (1) The data are measured at the following conditions.

Operation	Item	Indoor air temperature		Outdoor air temperature		Standards
		DB	WB	DB	WB	
Cooling		27°C	19°C	35°C	24°C	ISO-T1, JIS B8616
		29°C	19°C	46°C	24°C	ISO-T3, SASO

(2) This packaged air conditioner is manufactured and tested in conformity with the following standard.

JIS B8616 "UNITARY AIR CONDITIONERS"

(3) The operation data indicate when the air conditioner is operated at 380/415V 50Hz and 380V 60Hz respectively.

(4) Indicates the value at mild mode.

**Model FDEN408CES**

Item		Model		FDEN408CES	
				FDEN408C	FDC406CES3
<b>Nominal cooling capacity<sup>(1)</sup></b>		ISO-T1	W	<b>10200/11300</b>	
		ISO-T3		<b>8900/9900</b>	
<b>Power source</b>		<b>3 Phase, 380-415V 50Hz or 380V 50Hz/415V 50Hz, 380V 60Hz</b>			
<b>Operation data<sup>(2)</sup></b>	ISO-T1	Cooling input	kW	3.74/3.74/4.61	
		Running current (Cooling)	A	7.3/7.3/8.6	
		Power factor (Cooling)	%	78/71/81	
	ISO-T3	Cooling input	kW	4.08/4.08/5.11	
		Running current (Cooling)	A	7.9/7.9/9.3	
		Power factor (Cooling)	%	78/72/83	
		Inrush current (L.R.A)	A	45	
		Noise level <sup>(4)</sup>	dB(A)	Hi:49/50 Lo:43/43	57
<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>		<b>mm</b>	<b>239 × 1260 × 650</b>		<b>1250 × 950 × 340</b>
<b>Net weight</b>		<b>kg</b>	<b>34</b>		<b>80</b>
<b>Refrigerant equipment</b>					
<b>Compressor type &amp; Q'ty</b>				<b>RC5547ESE1 × 1</b>	
Motor		kW	-		<b>2.61</b>
Starting method				Line starting	
<b>Heat exchanger</b>				Louver fins & inner grooved tubing	Slitted fins & bare tubing
Refrigerant control				Capillary tube	Capillary tube
<b>Refrigerant</b>		<b>R22</b>			
<b>Quantity</b>		<b>kg</b>	<b>Holding charged</b>	<b>1.55 [Pre-charged up to the piping length of 5m]</b>	
<b>Refrigerant oil</b>		<i>ℓ</i>	-	<b>1.63 (SUNISO 3GS)</b>	
High pressure control		High pressure regulator valve			
<b>Air handling equipment</b>					
Fan type & Q'ty				Multiblade centrifugal fan × 3	Propeller fan × 2
Motor		W	35 + 55		60 × 2
Starting method				Line starting	Line starting
<b>Air flow (Standard)</b>		<b>CMM</b>	<b>Hi:26 Lo:19</b>		<b>100/110</b>
<b>Fresh air intake</b>					
Air filter, Q'ty				Polypropylene net × 3 (washable)	-
Shock & vibration absorber				Rubber sleeve (for fan motor)	Rubber mount (for compressor)
Electric heater		W	-		-
<b>Operation control</b>					
Operation switch				Wireless remote control switch	- (Indoor unit side)
Room temperature control				Thermostat by electronics	-
<b>Safety equipment</b>					
				Internal thermostat for fan motor. Frost protection thermostat.	Internal protector for compressor. Internal thermostat for fan motor. Internal Pressure relief valve for compressor.
<b>Installation data</b>		<b>mm</b>	<b>Liquid line: φ9.52 (3/8") Gas line: φ19.05 (3/4")</b>		
<b>Refrigerant piping size</b>		<b>(in)</b>			
<b>Connecting method</b>		<b>Flare piping</b>			
<b>Drain hose</b>				(Connectable with VP20)	-
Insulation for piping		Necessary (both Liquid & Gas lines)			
Accessories		Mounting kit. Wireless remote controller.			
Optional parts		-			

Notes (1) The data are measured at the following conditions.

Operation	Item	Indoor air temperature		Outdoor air temperature		Standards
		DB	WB	DB	WB	
Cooling		27°C	19°C	35°C	24°C	ISO-T1, JIS B8616
		29°C	19°C	46°C	24°C	ISO-T3, SASO

(2) This packaged air conditioner is manufactured and tested in conformity with the following standard.

JIS B8616 "UNITARY AIR CONDITIONERS"

(3) The operation data indicate when the air conditioner is operated at 380/ 415V 50Hz and 380V 60Hz respectively.

(4) Indicates the value at mild mode.

## Model FDEN508CES

Item		Model	FDEN508CES	
			FDEN508C	FDC506CES3
Nominal cooling capacity <sup>(1)</sup>	ISO-T1	W	12500/14000	
	ISO-T3		10600/11900	
Power source		3 Phase, 380-415V 50Hz or 380V 50Hz/415V 50Hz, 380V 60Hz		
Operation data <sup>(2)</sup>	ISO-T1	Cooling input	kW 4.82/4.82/5.78	
		Running current (Cooling)	A 9.8/9.8/10.8	
		Power factor (Cooling)	% 75/68/81	
	ISO-T3	Cooling input	kW 5.37/5.37/6.38	
		Running current (Cooling)	A 11.1/11.1/11.8	
		Power factor (Cooling)	% 74/67/82	
	Inrush current (L.R.A)		A	68
Noise level <sup>(4)</sup>		dB(A)	Hi:50/51 Lo:44/45	59
Exterior dimensions				
Height × Width × Depth		mm	239 × 1470 × 650	1250 × 950 × 340
Net weight		kg	40	85
Refrigerant equipment				
Compressor type & Q'ty			-	RC5563ESE2 × 1
Motor		kW	-	3.73
Starting method			-	Line starting
Heat exchanger			Louver fins & inner grooved tubing	Slitted fins & bare tubing
Refrigerant control			Capillary tube	Capillary tube
Refrigerant			R22	
Quantity		kg	Holding charged	1.85 [Pre-charged up to the piping length of 5m]
Refrigerant oil		ℓ	-	2.07 (SUNISO 3GS)
High pressure control			High pressure regulator valve	
Air handling equipment				
Fan type & Q'ty			Multiblade centrifugal fan × 4	Propeller fan × 2
Motor		W	55 × 2	60 × 2
Starting method			Line starting	Line starting
Air flow (Standard)		CMM	Hi:28 Lo:20	100/110
Fresh air intake			Unavailable	-
Air filter, Q'ty			Polypropylene net × 3 (washable)	
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber mount (for compressor)
Electric heater		W	-	40 (Crank case heater)
Operation control				
Operation switch			Wireless remote control switch	- (Indoor unit side)
Room temperature control			Thermostat by electronics	
Safety equipment			Internal thermostat for fan motor. Frost protection thermostat.	Internal protector for compressor. Internal thermostat for fan motor. Internal Pressure relief valve for compressor.
Installation data		mm	Liquid line: φ9.52 (3/8") Gas line: φ19.05 (3/4")	
Refrigerant piping size		(in)		
Connecting method			Flare piping	
Drain hose			(Connectable with VP20)	-
Insulation for piping			Necessary (both Liquid & Gas lines)	
Accessories			Mounting kit. Wireless remote controller.	
Optional parts			-	

Notes (1) The data are measured at the following conditions.

Operation	Item	Indoor air temperature		Outdoor air temperature		Standards
		DB	WB	DB	WB	
Cooling		27°C	19°C	35°C	24°C	ISO-T1, JIS B8616
		29°C	19°C	46°C	24°C	ISO-T3, SASO

(2) This packaged air conditioner is manufactured and tested in conformity with the following standard.

JIS B8616 "UNITARY AIR CONDITIONERS"

(3) The operation data indicate when the air conditioner is operated at 380/415V 50Hz and 380V 60Hz respectively.

(4) Indicates the value at mild mode.



**Model FDEN508CEM**

Item		Model		FDEN508CEM		
		FDEN508C		FDC506CEM3		
<b>Nominal cooling capacity<sup>(1)</sup></b>		ISO-T1	W	<b>12500/14000</b>		
		ISO-T3		<b>11900</b>		
<b>Power source</b>		<b>3 Phase, 230V 50Hz, 220V 60Hz</b>				
<b>Operation data<sup>(3)</sup></b>	<b>ISO-T1</b>	Cooling input	kW	4.59/5.51		
		Running current (Cooling)	A	14.8/16.2		
		Power factor (Cooling)	%	78/89		
	<b>ISO-T3</b>	Cooling input	kW	6.03		
		Running current (Cooling)	A	17.5		
		Power factor (Cooling)	%	90		
		Inrush current (L.R.A)	A	108		
		Noise level <sup>(4)</sup>	dB(A)	Hi:50/51 Lo:44/45	59	
	<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>		<b>mm</b>	<b>239 × 1470 × 650</b>		<b>1250 × 950 × 340</b>	
<b>Net weight</b>		<b>kg</b>	<b>40</b>		<b>85</b>	
<b>Refrigerant equipment</b>						
<b>Compressor type &amp; Q'ty</b>		-		<b>RC5559EME2 × 1</b>		
Motor		kW	-		<b>3.36</b>	
Starting method		-		Line starting		
<b>Heat exchanger</b>		Louver fins & inner grooved tubing		Slitted fins & bare tubing		
Refrigerant control		Capillary tube		Capillary tube		
<b>Refrigerant</b>		<b>R22</b>				
<b>Quantity</b>		<b>kg</b>	<b>Holding charged</b>	<b>1.8 [Pre-charged up to the piping length of 5m]</b>		
<b>Refrigerant oil</b>		ℓ	-	<b>2.07 (SUNISO 3GS)</b>		
High pressure control		High pressure regulator valve				
<b>Air handling equipment</b>						
Fan type & Q'ty		Multiblade centrifugal fan × 4		Propeller fan × 2		
Motor		W	55 × 2		60 × 2	
Starting method		Line starting		Line starting		
<b>Air flow (Standard)</b>		<b>CMM</b>	<b>Hi:28 Lo:20</b>		<b>100/110</b>	
<b>Fresh air intake</b>		Unavailable		-		
Air filter, Q'ty		Polypropylene net × 3 (washable)		-		
Shock & vibration absorber		Rubber sleeve (for fan motor)		Rubber mount (for compressor)		
Electric heater		W	-		40 (Crank case heater)	
<b>Operation control</b>						
Operation switch		Wireless remote control switch		- (Indoor unit side)		
Room temperature control		Thermostat by electronics		-		
<b>Safety equipment</b>		Internal thermostat for fan motor. Frost protection thermostat.		Internal protector for compressor. Internal thermostat for fan motor. Internal Pressure relief valve for compressor.		
<b>Installation data</b>		<b>mm</b>	<b>Liquid line: φ9.52 (3/8") Gas line: φ19.05 (3/4")</b>			
<b>Refrigerant piping size</b>		<b>(in)</b>				
<b>Connecting method</b>		<b>Flare piping</b>				
<b>Drain hose</b>		(Connectable with VP20)		-		
Insulation for piping		Necessary (both Liquid & Gas lines)				
Accessories		Mounting kit. Wireless remote controller.				
Optional parts		-				

Notes (1) The data are measured at the following conditions.

Operation	Item	Indoor air temperature		Outdoor air temperature		Standards
		DB	WB	DB	WB	
Cooling		27°C	19°C	35°C	24°C	ISO-T1, JIS B8616
		29°C	19°C	46°C	24°C	ISO-T3, SASO

(2) This packaged air conditioner is manufactured and tested in conformity with the following standard.

JIS B8616 "UNITARY AIR CONDITIONERS"

(3) The operation data indicate when the air conditioner is operated at 230V,50Hz and 220V,60Hz respectively.

(4) Indicates the value at mild mode.

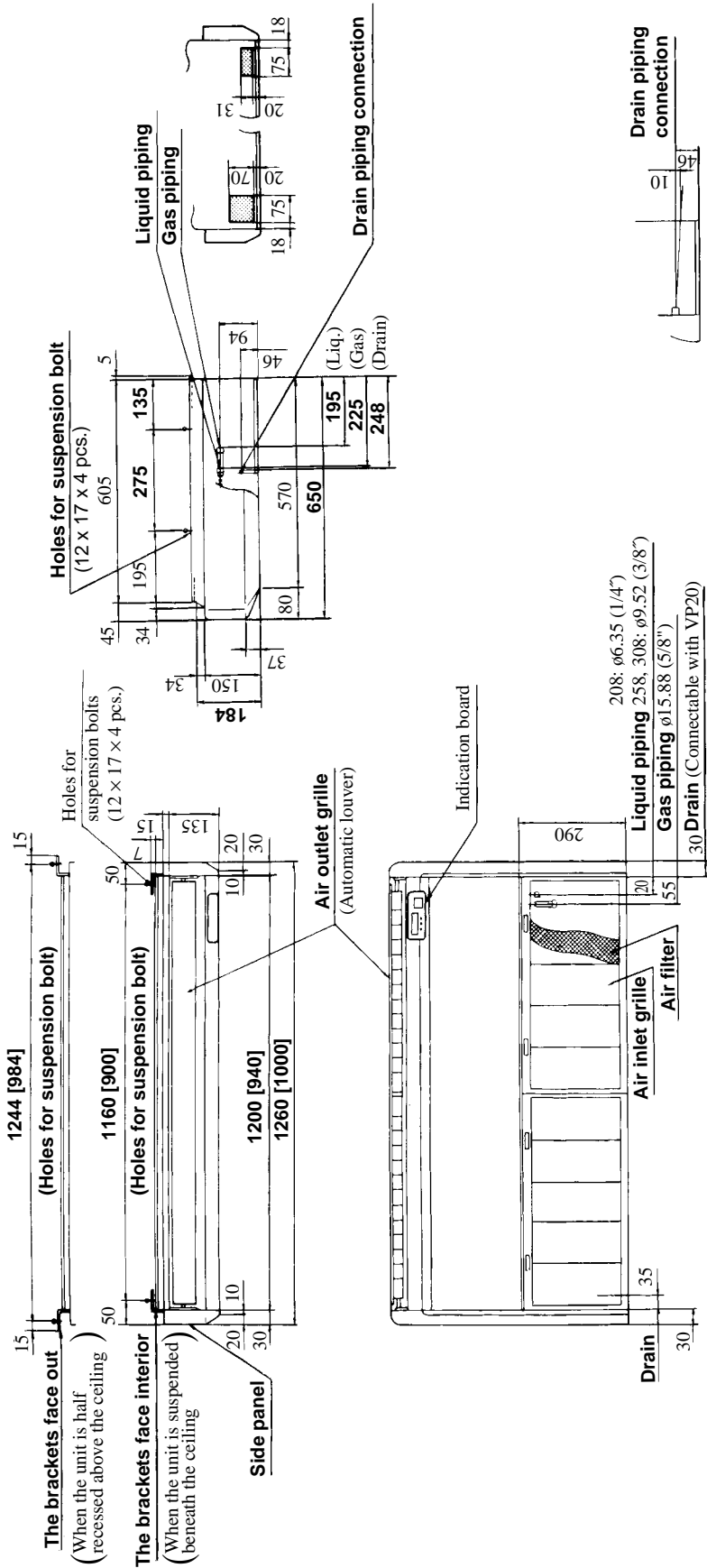
**9.2.2 Range of usage & limitations**

Item	Models	FDEN208, 258 (FDC208, 258 type)	FDEN208~508 (FDC206~506 type)
Indoor return air temperature (Upper, lower limits)		Refer to the selection chart	
Outdoor air temperature (Upper, lower limits)			
Refrigerant line (one way) length		Max. 30m	
Vertical height difference between outdoor unit and indoor unit		Max. 20 m (Outdoor unit is higher) Max. 15 m (Outdoor unit is lower)	Max. 15m
Power source voltage		Rating $\pm$ 10%	
Voltage at starting		Min. 85% of rating	
Frequency of ON-OFF cycle		Max. 10 times/h	
ON and OFF interval		Max. 3 minutes	

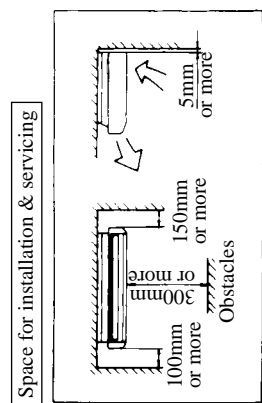
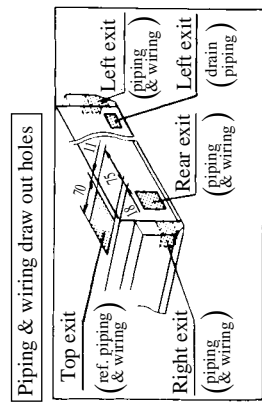
### 9.2.3 Exterior dimensions

(1) Indoor unit  
**Models FDEN208C, 258C, 308C**

Unit: mm



Note (1) The slope of drain piping inside the unit is able to take incline of 10 mm.

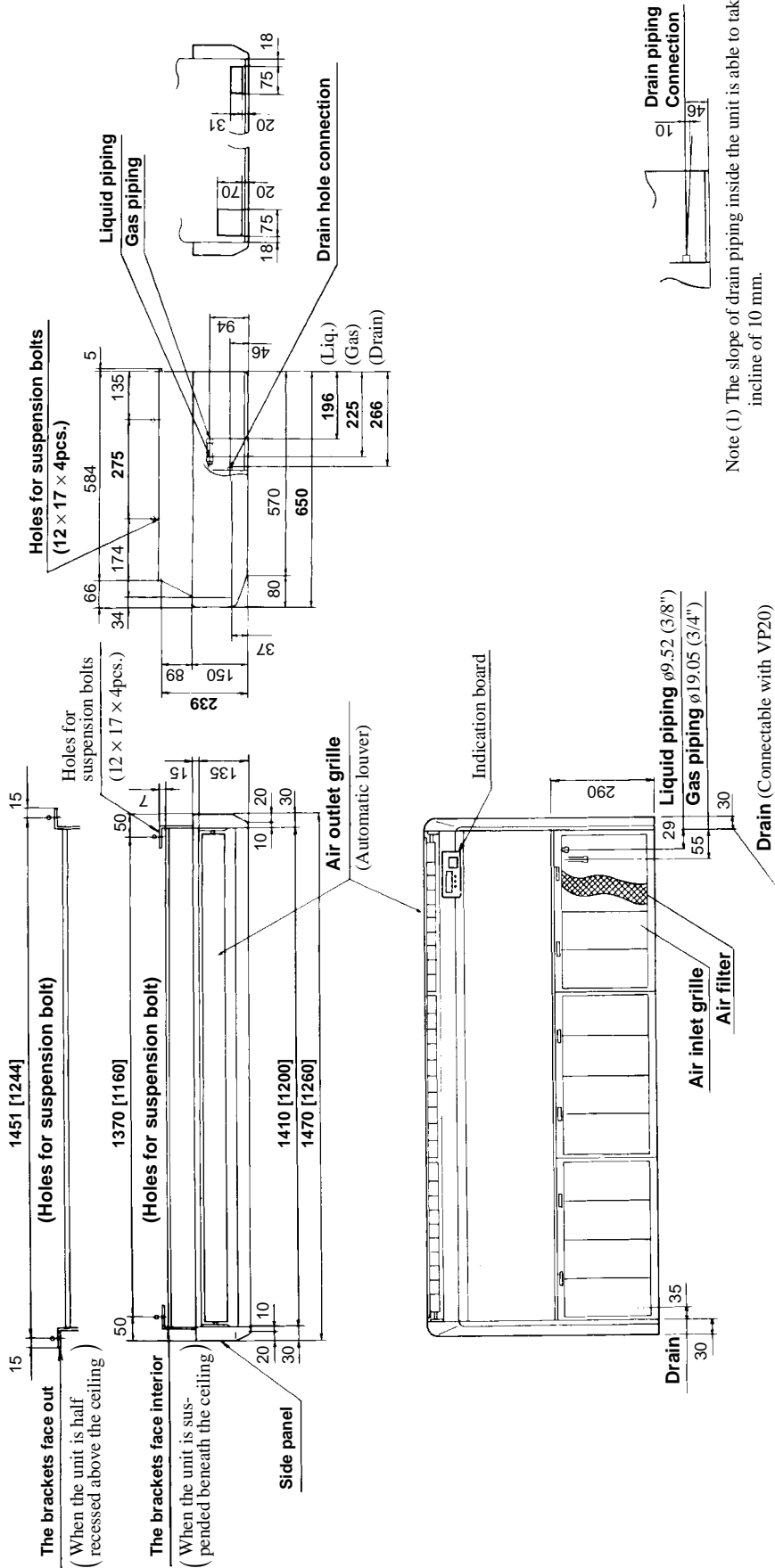


Note (1) The [ ] value dimension for models FDEN208C.

# F DEN-C

Models F DEN408C, 508C

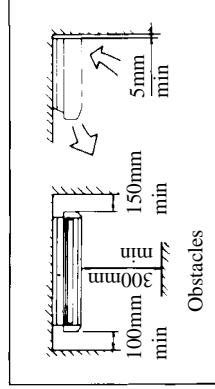
Unit: mm



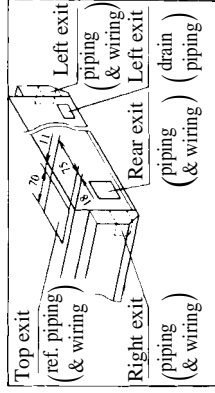
Note (1) The slope of drain piping inside the unit is able to take incline of 10 mm.

Space for installation & servicing

Ceiling suspension installation



Piping & wiring draw out holes

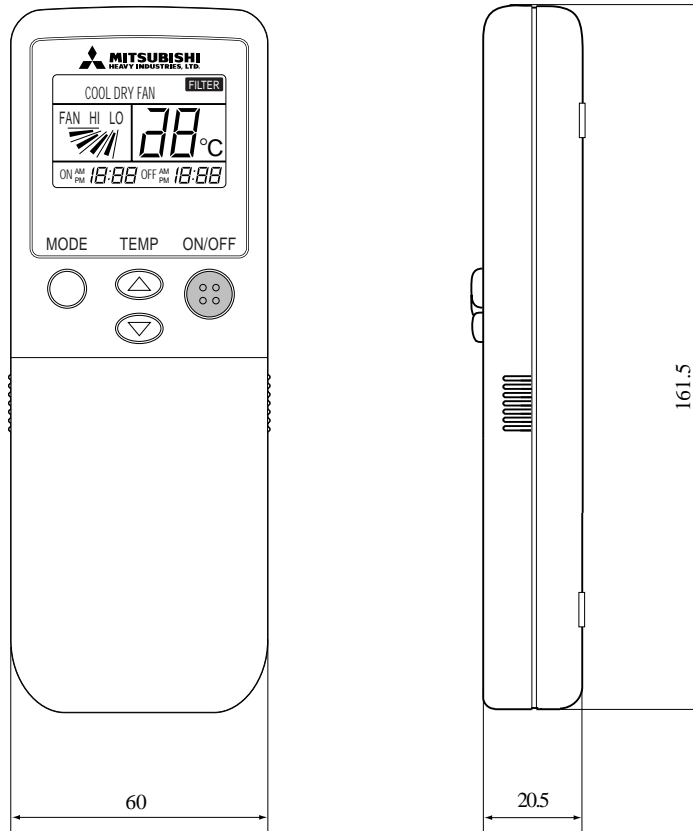


Note (1) The [ ] value dimension for models F DEN408C

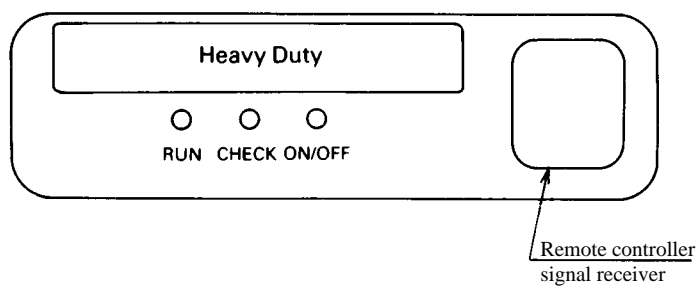
**(2) Remote controller**

**(a) Wireless remote controller**

Unit: mm



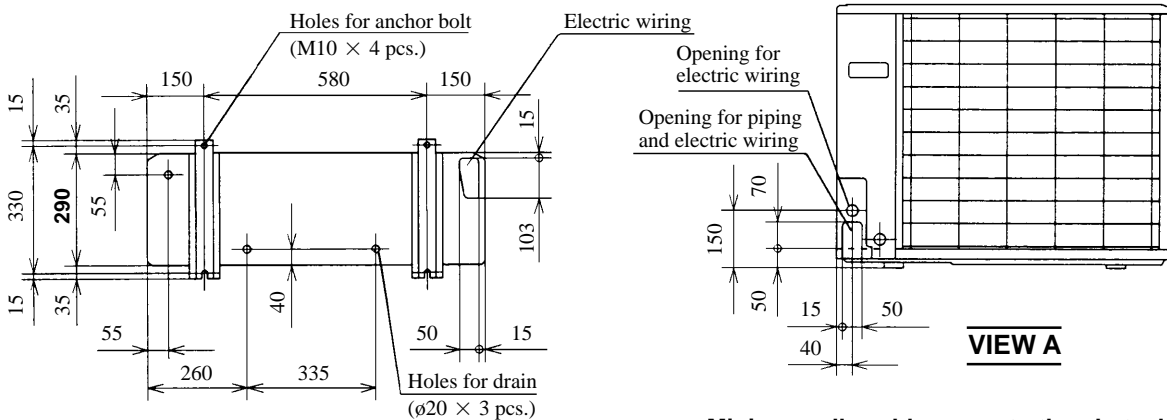
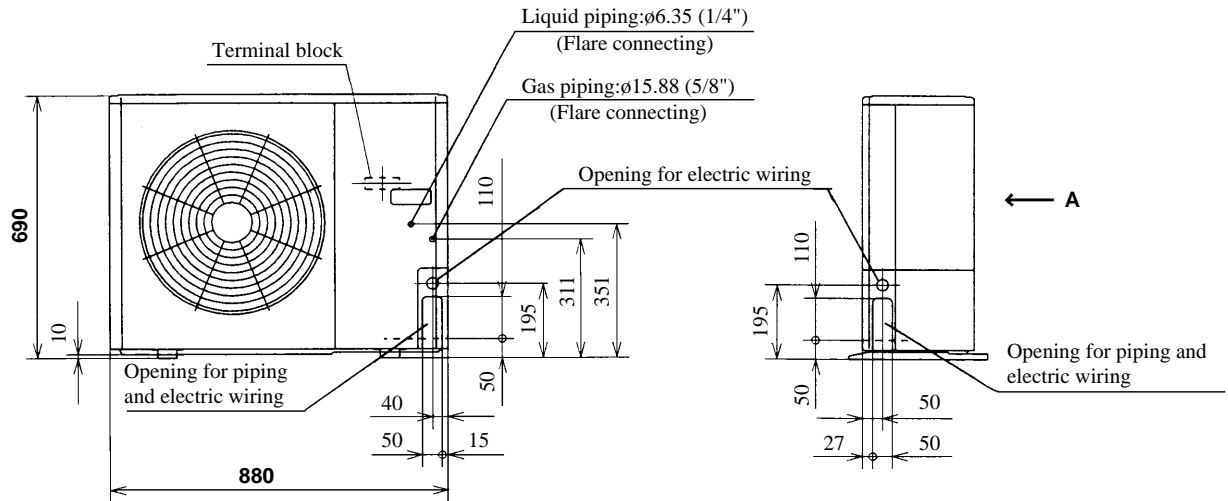
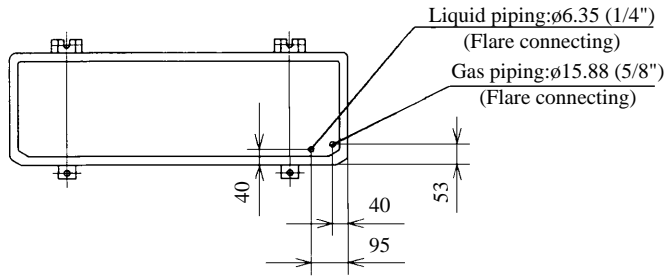
**(b) Indication board of indoor unit**



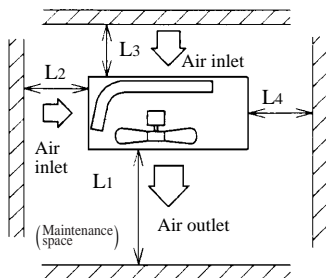
# FDEN-C

## (3) Outdoor unit Models FDC208CEN3, 208CEP3

Unit: mm



### Required space for maintenance and air flow



### Minimum allowable space to the obstacles

Unit: mm

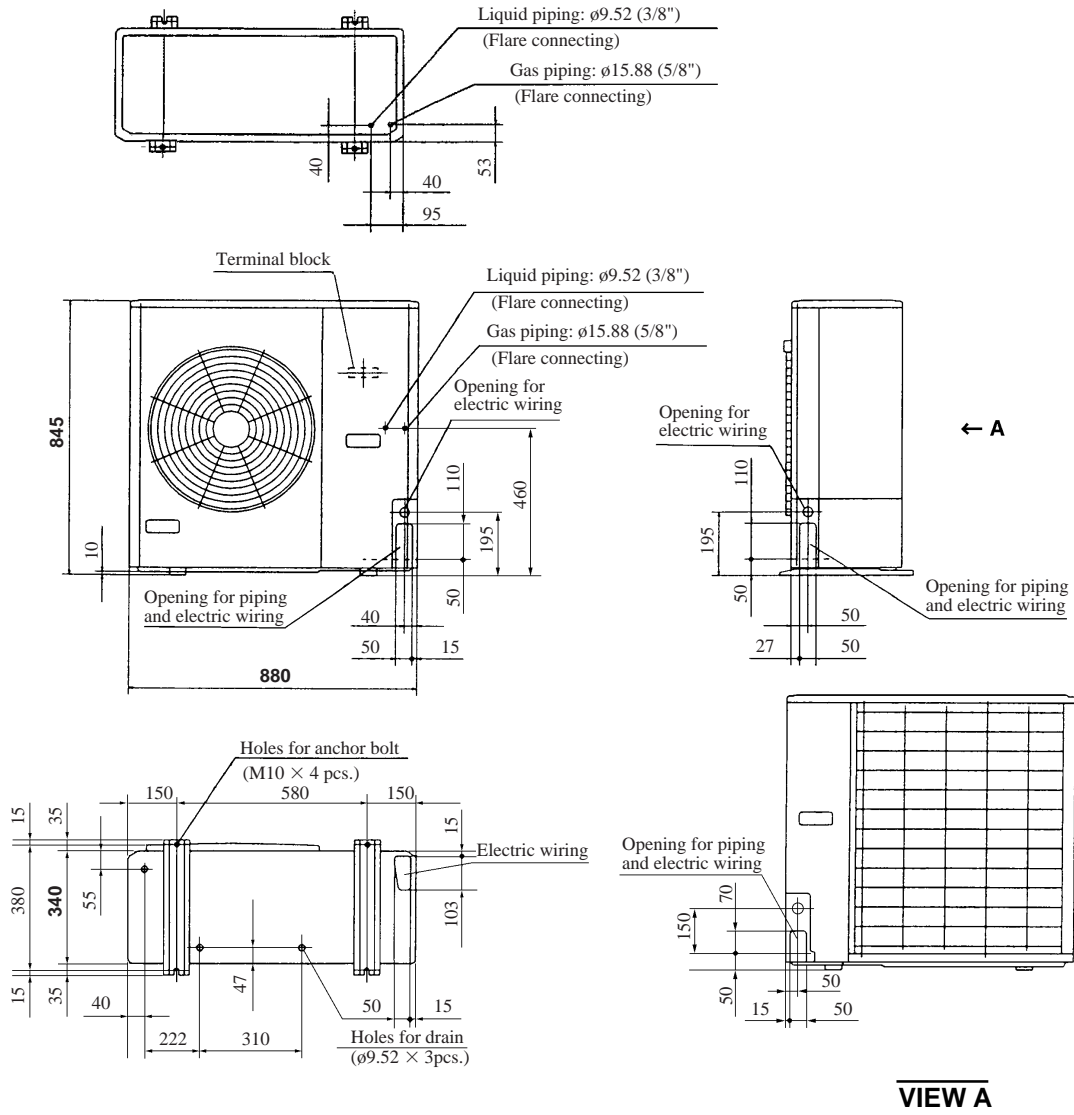
Mark	Installation type		
	I	II	III
L1	Open	Open	500
L2	300	5	Open
L3	100	150	100
L4	5	5	5

### Notes

- (1) Avoid the location where four sides are entirely surrounded by walls.
- (2) Fix the unit by anchor bolts without fail. Restrict the protrusion length of anchor bolt to 15 mm and under.
- (3) When strong wind blows against the unit, direct the discharge port at a right angle to the wind direction.
- (4) Secure the space of 1 m and over at the top of unit.
- (5) Make the height of obstruction wall in front of discharge port lower than the height of unit.

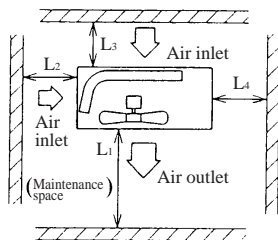
Models FDC258CEN3, 258CEP3

Unit: mm



**VIEW A**

**Required space for maintenance and air flow**



**Minimum allowable space to the obstacles**

Unit:mm

Mark	Installation type	Unit:mm		
		I	II	III
L <sub>1</sub>	Open	Open	500	
L <sub>2</sub>	300	5	Open	
L <sub>3</sub>	100	150	100	
L <sub>4</sub>	5	5	5	

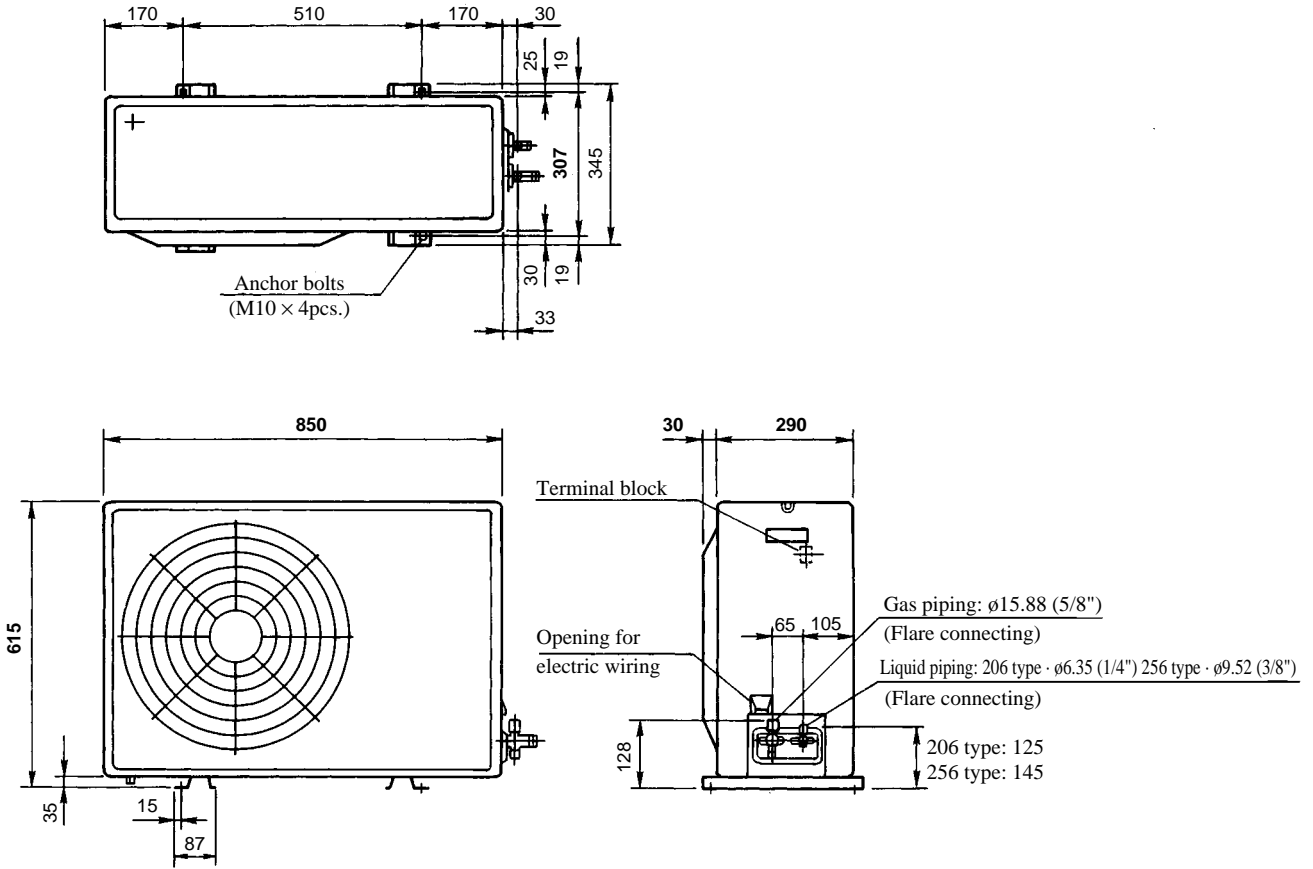
**Notes**

- (1) Avoid the location where four sides are entirely surrounded by walls.
- (2) Fix the unit by anchor bolts without fail. Restrict the protrusion length of anchor bolt to 15 mm and under.
- (3) When strong wind blows against the unit, direct the discharge port at a right angle to the wind direction.
- (4) Secure the space of 1 m and over at the top of unit.
- (5) Make the height of obstruction wall in front of discharge port lower than the height of unit.

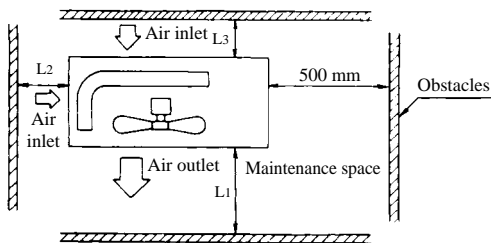
# FDEN-C

Models FDC206CEN3, 206CEP3, 256CEN3, 256CEP3

Unit: mm



## Required space for maintenance and air flow



## Minimum allowable space to the obstacles

Unit: mm

Mark	Installation type	
	I	II
L <sub>1</sub>	Open	100
L <sub>2</sub>	100	Open
L <sub>3</sub>	100	500

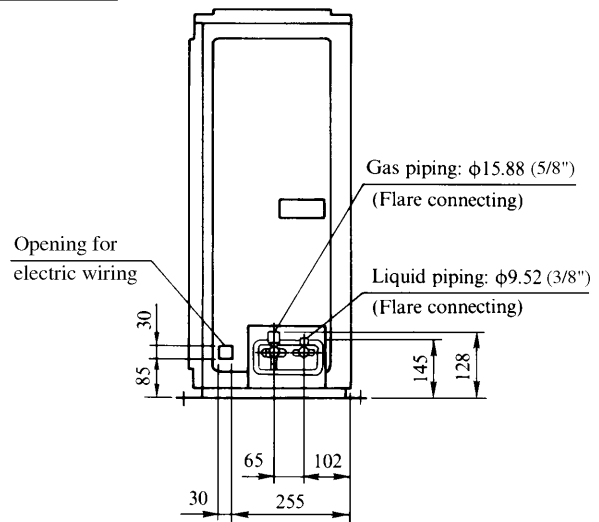
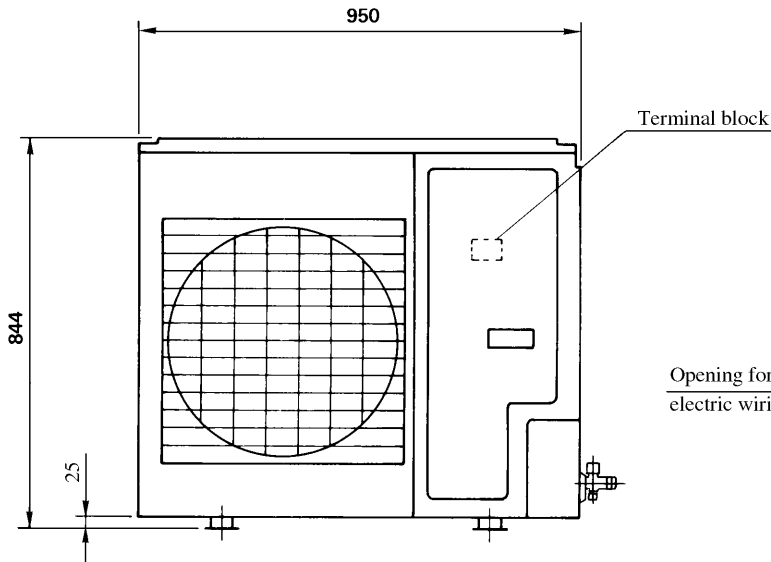
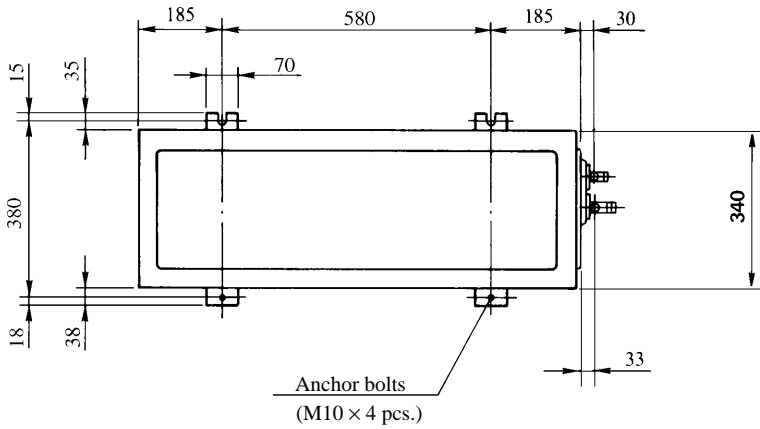
### Notes

- (1) Fix the unit with anchor bolts.
- (2) Strong wind must not be directed to the air outlet.
- (3) Free space over the unit must be larger than 1 m.
- (4) The unit should not be surrounded by obstructions in all direction. At least one direction around the unit must be free.

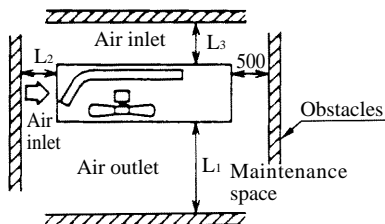


**Models FDC306CEN3, 306CEP3, 306CES3**

Unit: mm



**Required space for maintenance and air flow**



**Minimum allowable space to the obstacles**

Unit: mm

Mark	Installation type	Unit: mm		
		I	II	III
L <sub>1</sub>	Open	Open	500	
L <sub>2</sub>	300	0	Open	
L <sub>3</sub>	100	150	100	

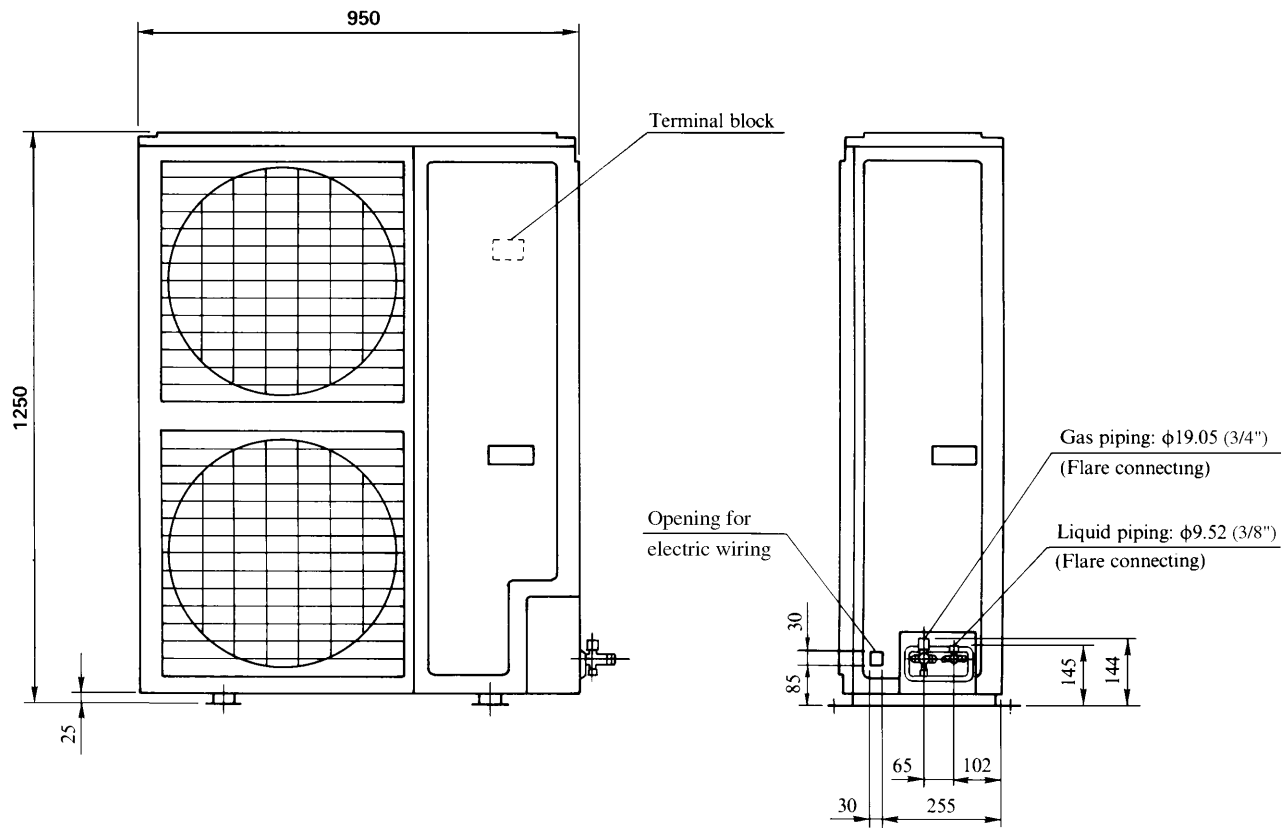
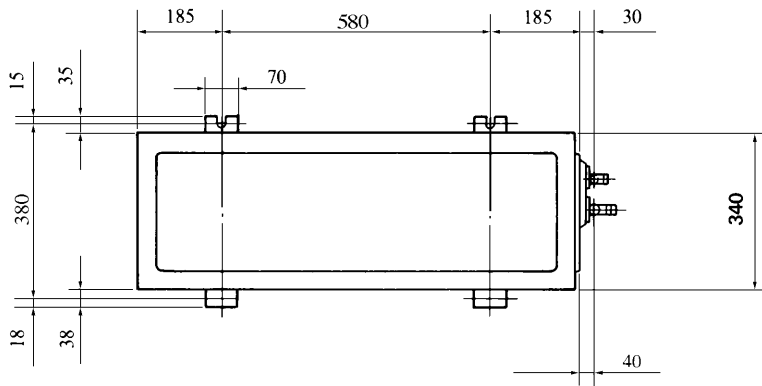
**Notes**

- (1) Fix the unit with anchor bolts.
- (2) Strong wind must not be directed to the air outlet.
- (3) Free space over the unit must be larger than 1 m.
- (4) The unit should not be surrounded by obstructions in all direction. At least one direction around the unit must be free.

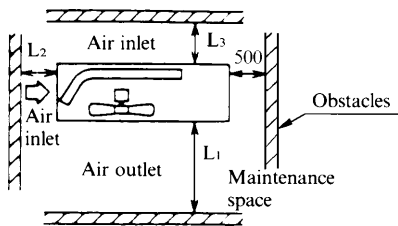
# FDEN-C

Models FDC406CES3, 506CES3, 506CEM3

Unit: mm



### Required space for maintenance and air flow



### Minimum allowable space to the obstacles

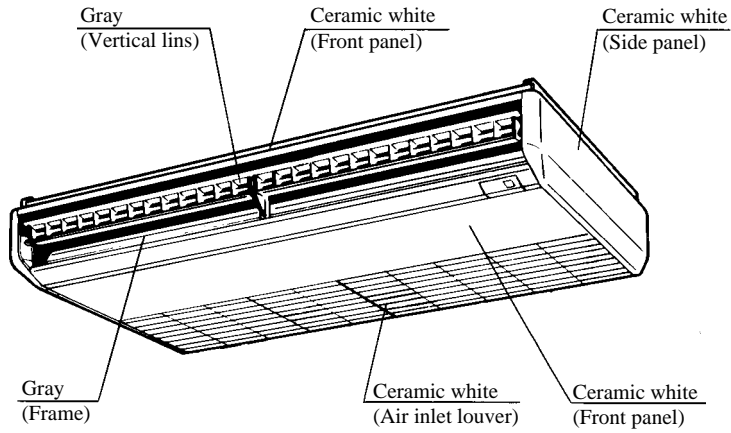
		Unit:mm		
Installation type		I	II	III
Mark				
L <sub>1</sub>	Open	Open	500	
L <sub>2</sub>	300	0	Open	
L <sub>3</sub>	150	300	150	

### Notes

- (1) Fix the unit with anchor bolts.
- (2) Strong wind must not be directed to the air outlet.
- (3) Free space over the unit must be larger than 1 m.
- (4) The unit should not be surrounded by obstructions in all direction.  
At least one direction around the unit must be free.

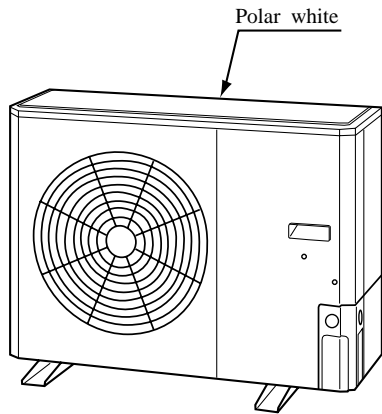
## 9.2.4 Exterior appearance

### (1) Indoor unit

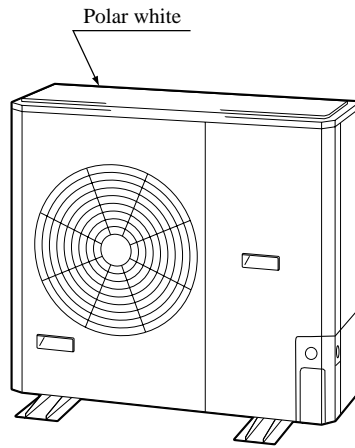


### (2) Outdoor unit

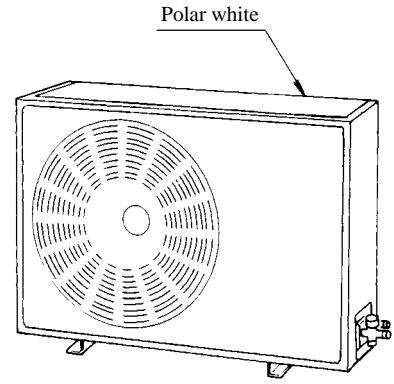
**Models FDC208CEN3, 208CEP3**



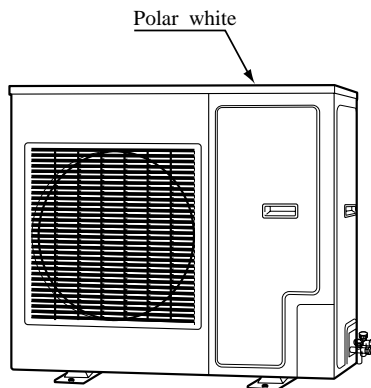
**Models FDC258CEN3, 258CEP3**



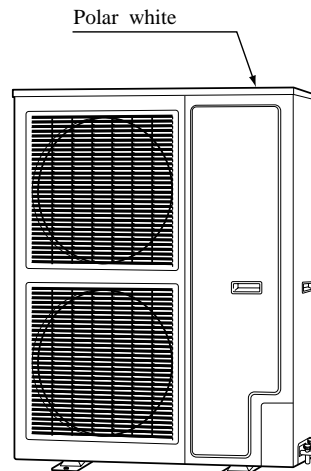
**Models FDC206CEN3, 206CEP3  
256CEN3, 256CEP3**



**Models FDC306CEN3, 306CEP3  
306CES3**

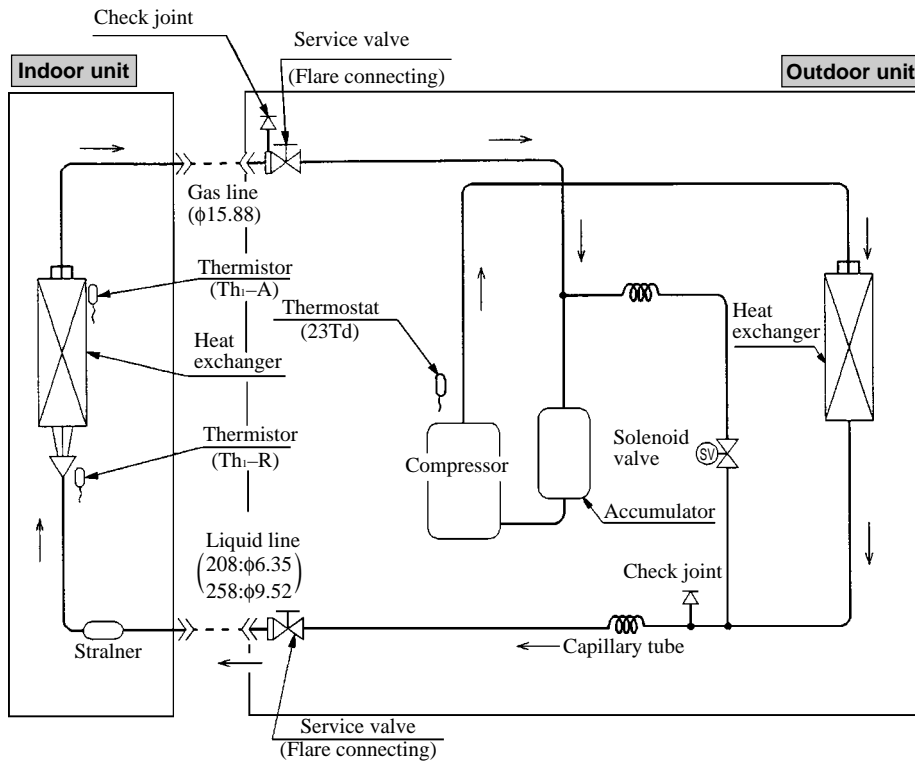


**Models FDC406CES3, 506CES3  
506CEM3**

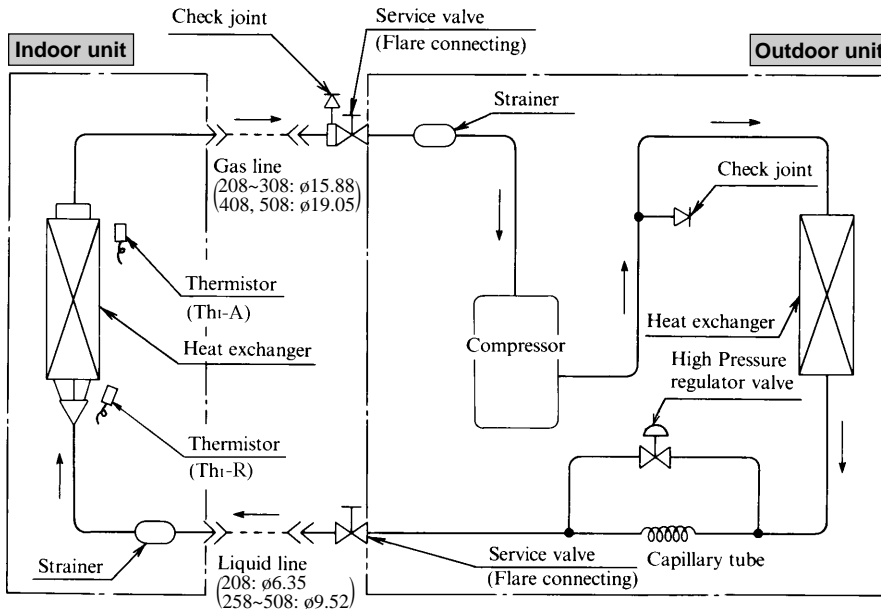


**9.2.5 Piping system**

Models **FDEN208CEN-S, 208CEP-S, 258CEN-S, 258CEP-S**



Models **FDEN208CEN, 208CEP, 258CEN, 258CEP, 308CEN, 308CEP, 308CES, 408CES, 508CES, 508CEM**



**Preset point of the protective devices**

Part name	Mark	Equipped unit	All models
Thermistor (for frost prevention)	Thi-R	Indoor unit	OFF 2.5°C ON 10°C

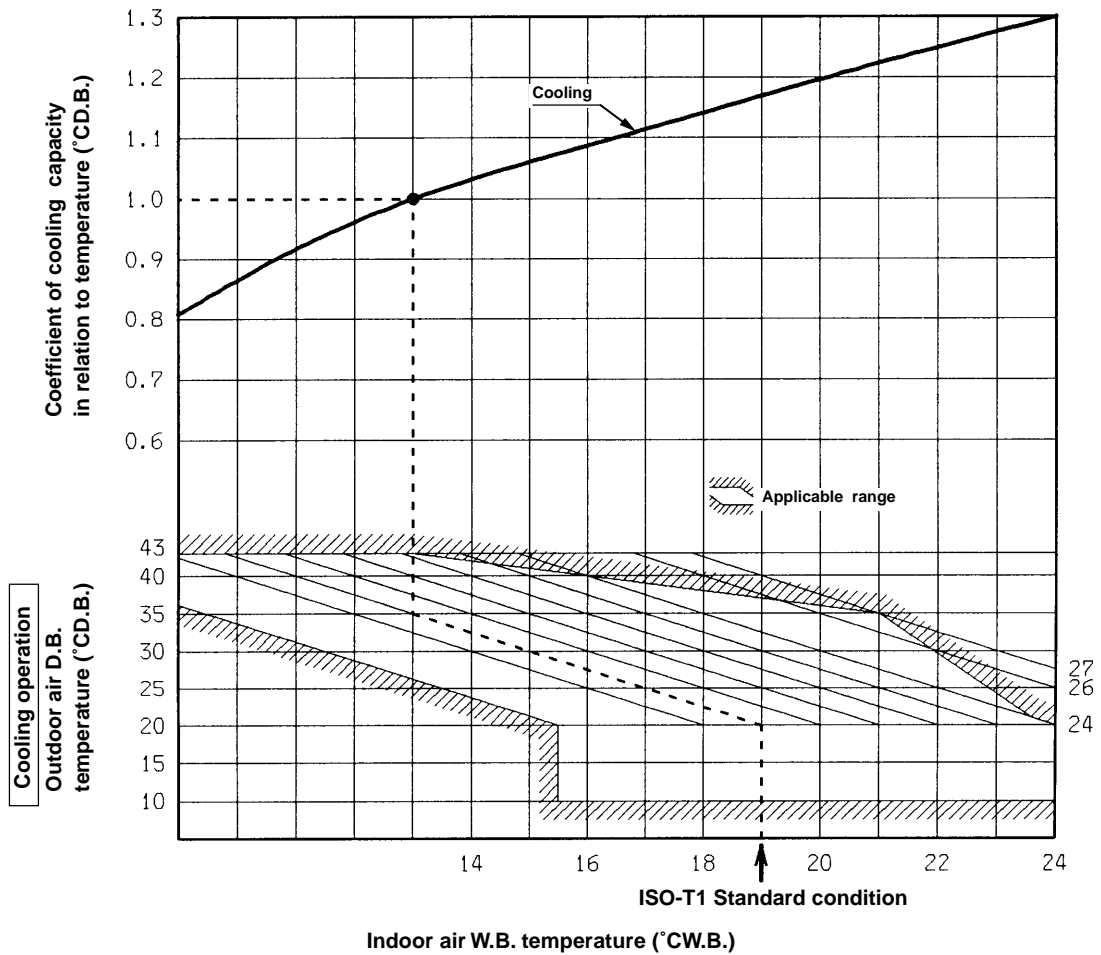
### 9.2.6 Selection chart

Correct the cooling capacity in accordance with the conditions as follows. The net cooling capacity can be obtained in the following way.

**Net capacity = Capacity shown on specification × Correction factors as follows.**

**(1) Coefficient of cooling capacity in relation to temperatures**

**(a) Only case of ISO-T1 models**



Only case of ISO-T3 and SASO models

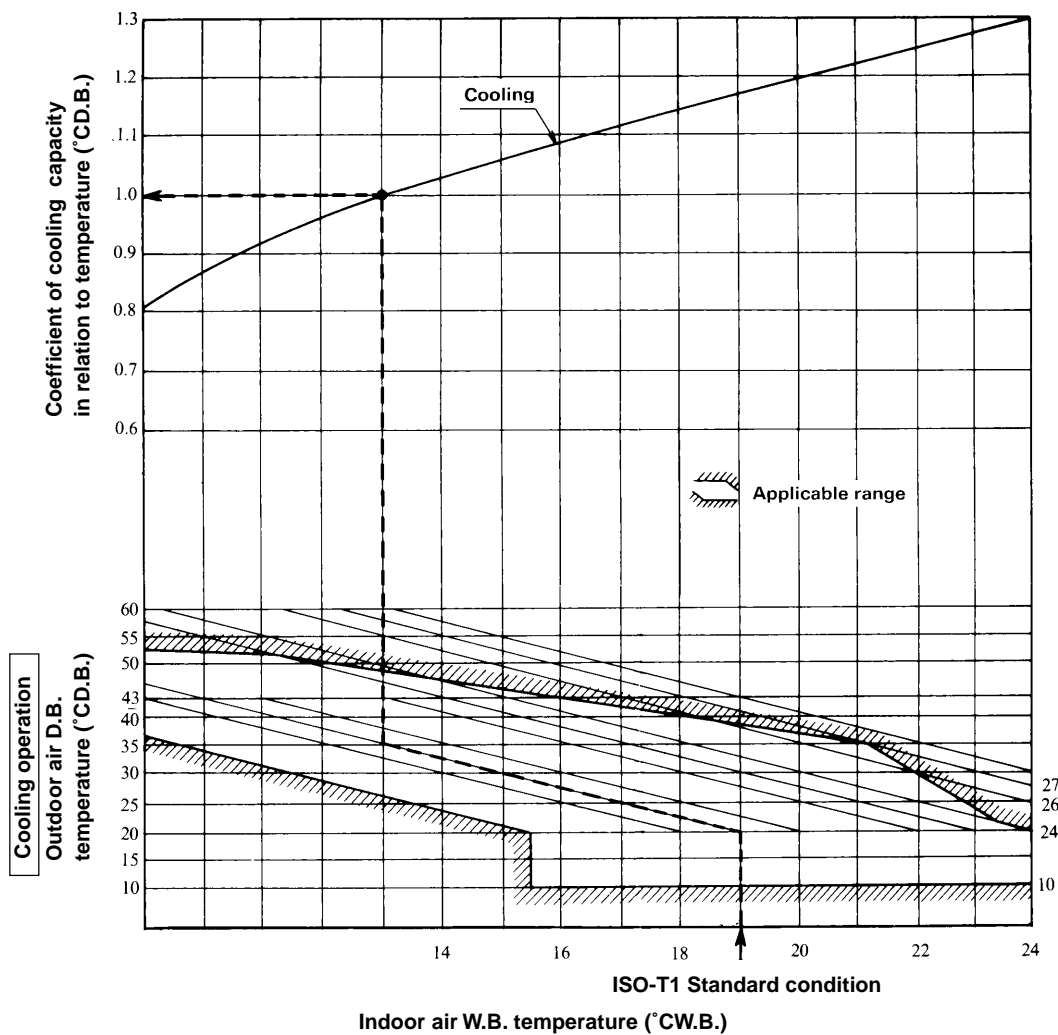


Table of bypass factor

Item	Model	FDEN208 type	FDEN258 type	FDEN308 type	FDEN408-508 type
	Air flow	Hi	0.031	0.030	0.036
	Lo	0.016	0.013	0.018	0.010

(2) Correction of cooling capacity in relation to air flow rate control (fan speed)

Coefficient: 1.00 at High, 0.95 at Low

**(3) Correction of cooling capacity in relation to one way length of refrigerant piping**

It is necessary to correct the cooling capacity in relation to the one way equivalent piping length between the indoor and outdoor units.

(50/60Hz)

Equivalent piping length <sup>(1)</sup>		m	5	10	15	20	25	30	35
<b>Cooling</b>	FDEN208 type		1.0	0.995	0.995/0.99	0.99/0.985	0.985/0.98	0.985/0.975	0.98/0.97
	FDEN258 type		1.0	0.995	0.99	0.985	0.98	0.975	0.97
	FDEN308 type		1.0	0.99	0.98/0.975	0.97/0.965	0.96/0.95	0.95/0.94	0.94/0.925
	FDEN408 type		1.0	0.995/0.99	0.985/0.98	0.98/0.97	0.97/0.96	0.965/0.95	0.955/0.94
	FDEN508 type		1.0	0.99/0.985	0.975/0.97	0.965/0.955	0.95/0.94	0.94/0.925	0.925/0.91

Note (1) Equivalent piping length can be obtained by calculating as follows.

208, 258, 308 series [ $\phi 15.88(5/8")$ ]: Equivalent piping length = Real piping length + (0.10 × Number of bends in piping)

408, 508, series [ $\phi 19.05(3/4")$ ]: Equivalent piping length = Real piping length + (0.15 × Number of bends in piping)

[Equivalent piping length < Limitation length of piping + 5m]

**(4) When the outdoor unit is located at a lower height than the indoor unit in cooling operation,** the following values should be subtracted from the values in the above table.

Height difference between the indoor unit and outdoor unit in the vertical height difference	5m	10m	15m
Adjustment coefficient	0.01	0.02	0.03

**Piping length limitations**

Item \ Model	FDEN208, 258 (FDC208, 258 type)	FDEN208 ~ 508 (FDC206~506 type)
<b>Max. one way piping length</b>	30m	
<b>Max. vertical height difference</b>	20m (Outdoor unit is higher) 15m (Outdoor unit is lower)	15m

Note (1) Values in the table indicate the one way piping length between the indoor and outdoor units.

**How to obtain the cooling capacity**

**Example :** The net cooling capacity of the model FDEN308CEN with the air flow “High”, the piping length of 15m, the outdoor unit located 5m lower than the indoor unit, indoor wet-bulb temperature at 19.0 °C and outdoor dry-bulb temperature 35 °C is

$$\text{Net cooling capacity} = \frac{7100}{\text{FDEN308CEN}} \times \frac{1.00}{\text{Air flow "High"}} \times \frac{(0.98 - 0.01)}{\text{Length 15m. Height difference 5 m}} \times \frac{1.0}{\text{Factor by air temperatures}} = \mathbf{6887 \text{ w}}$$

## 9.2.7 Noise level

Notes (1) The data are based on the following conditions.

Ambient air temperature:

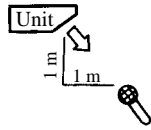
Indoor unit 27°C DB, 19°C WB.

Outdoor unit 35°C DB.

### Indoor unit

Measured based on JIS B 8616

Mike position as below



Mike (front & at low point)

### Outdoor unit

Measured based on JIS B 8616

Mike position: at highest noise level  
in position as below

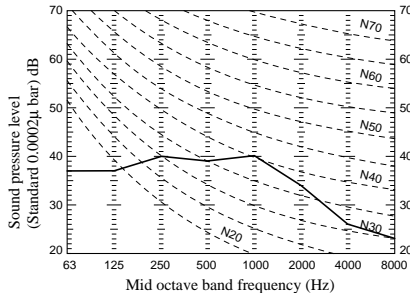
Distance from front side 1 m

Height 1 m

### (1) Indoor unit

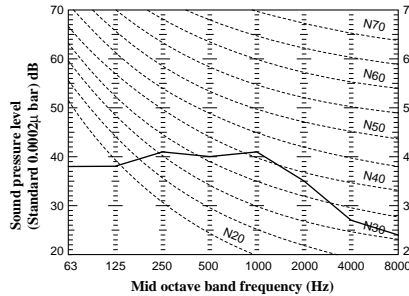
#### Model FDEN208C (50Hz)

Noise level 43 dB (A) at HIGH  
38 dB (A) at LOW



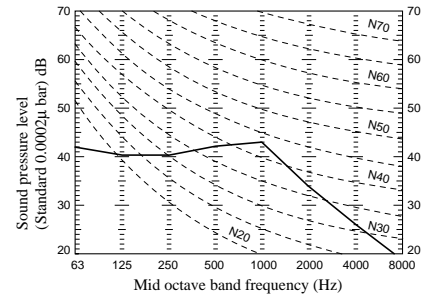
#### Model FDEN208C (60Hz)

Noise level 44 dB (A) at HIGH  
39 dB (A) at LOW



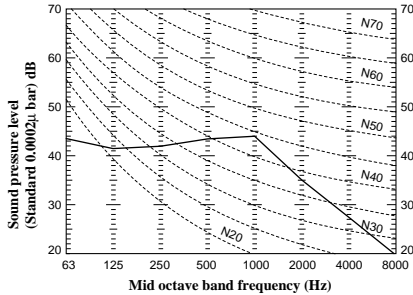
#### Model FDEN258C (50Hz)

Noise level 44 dB (A) at HIGH  
39 dB (A) at LOW



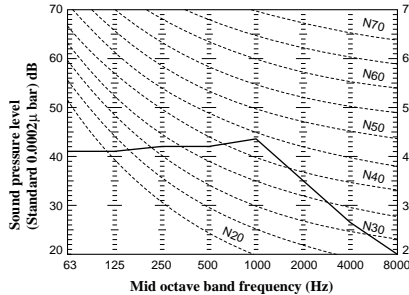
#### Model FDEN258C (60Hz)

Noise level 45 dB (A) at HIGH  
40 dB (A) at LOW



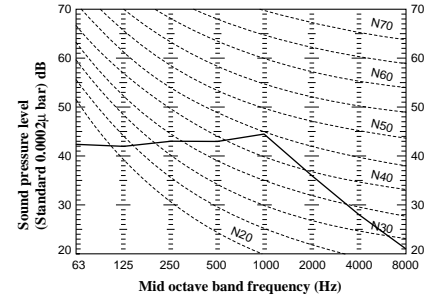
#### Model FDEN308C (50Hz)

Noise level 45 dB (A) at HIGH  
39 dB (A) at LOW



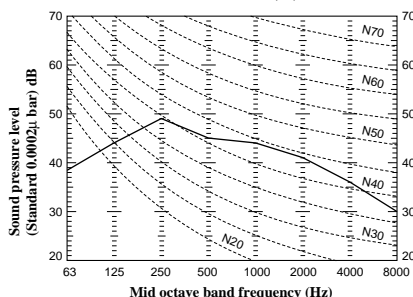
#### Model FDEN308C (60Hz)

Noise level 46 dB (A) at HIGH  
40 dB (A) at LOW



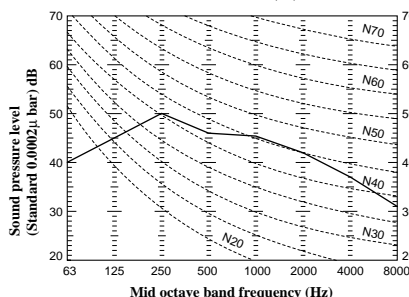
#### Model FDEN408C (50Hz)

Noise level 49 dB (A) at HIGH  
43 dB (A) at LOW



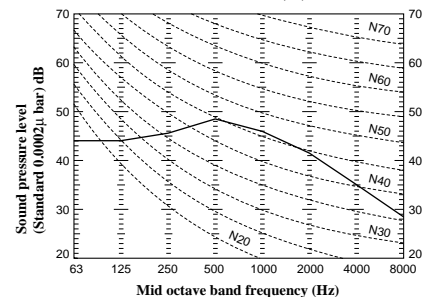
#### Model FDEN408C (60Hz)

Noise level 50 dB (A) at HIGH  
43 dB (A) at LOW



#### Model FDEN508C (50Hz)

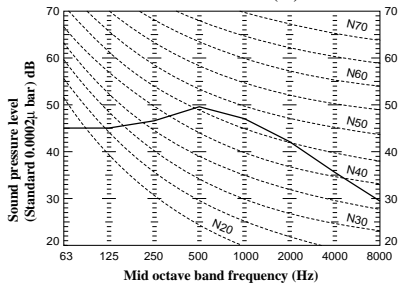
Noise level 50 dB (A) at HIGH  
44 dB (A) at LOW





**Model FDEN508C (60Hz)**

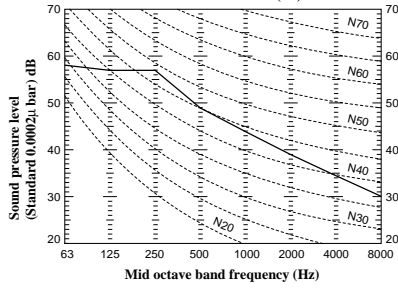
Noise level 51 dB (A) at HIGH  
45 dB (A) at LOW



**(2) Outdoor unit**

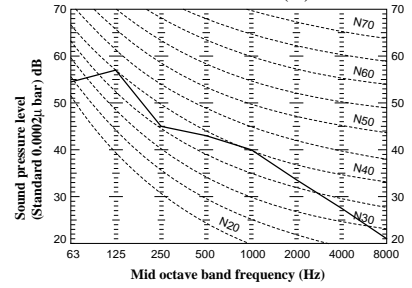
**Model FDC208CEN3**

Noise level 52 dB (A)



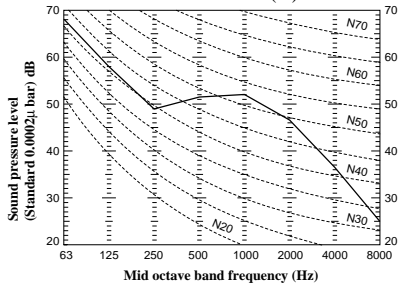
**Model FDC208CEP3**

Noise level 52 dB (A)



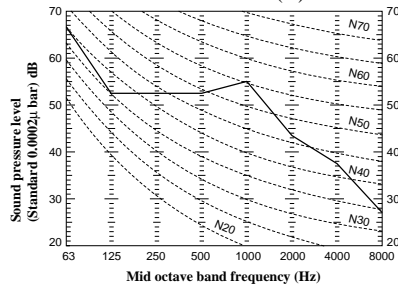
**Model FDC206CEN3**

Noise level 59 dB (A)



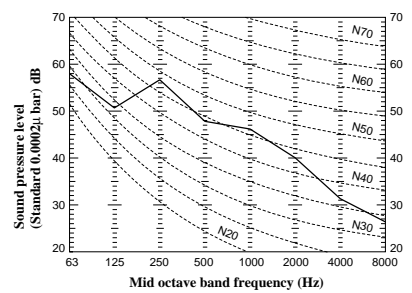
**Model FDC206CEP3**

Noise level 59 dB (A)



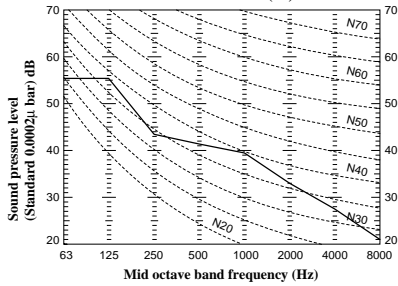
**Model FDC258CEN3**

Noise level 52 dB (A)



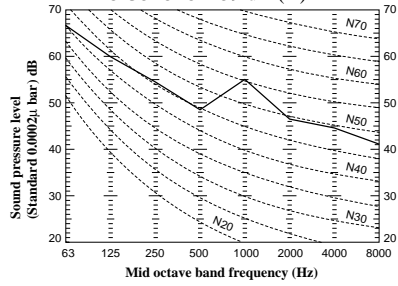
**Model FDC258CEP3**

Noise level 52 dB (A)



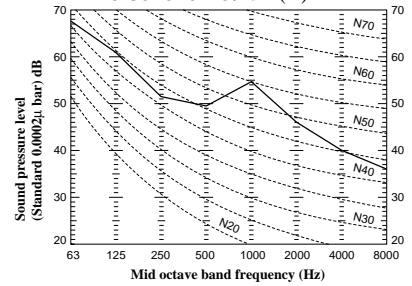
**Model FDC256CEN3**

Noise level 59 dB (A)



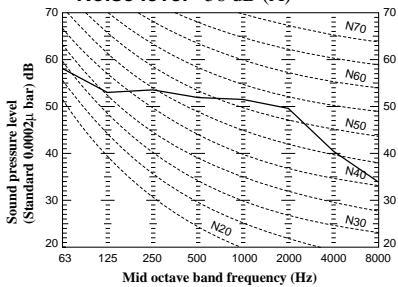
**Model FDC256CEP3**

Noise level 59 dB (A)



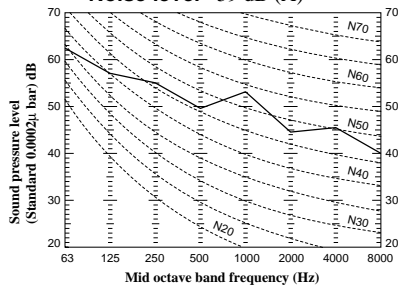
**Model FDC306CEN3**

Noise level 56 dB (A)



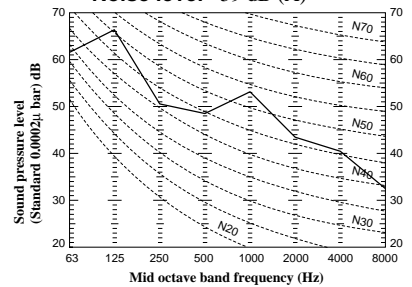
**Model FDC306CEP3**

Noise level 59 dB (A)



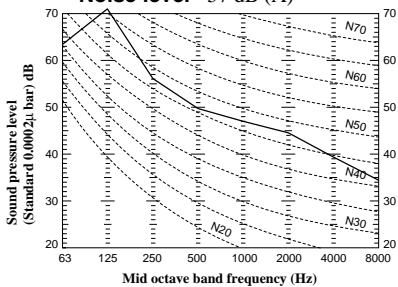
**Model FDC306CES3**

Noise level 59 dB (A)



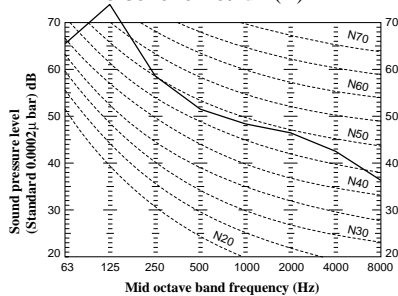
**Model FDC406CES3**

Noise level 57 dB (A)



**Models FDC506CES3, 506CEM3**

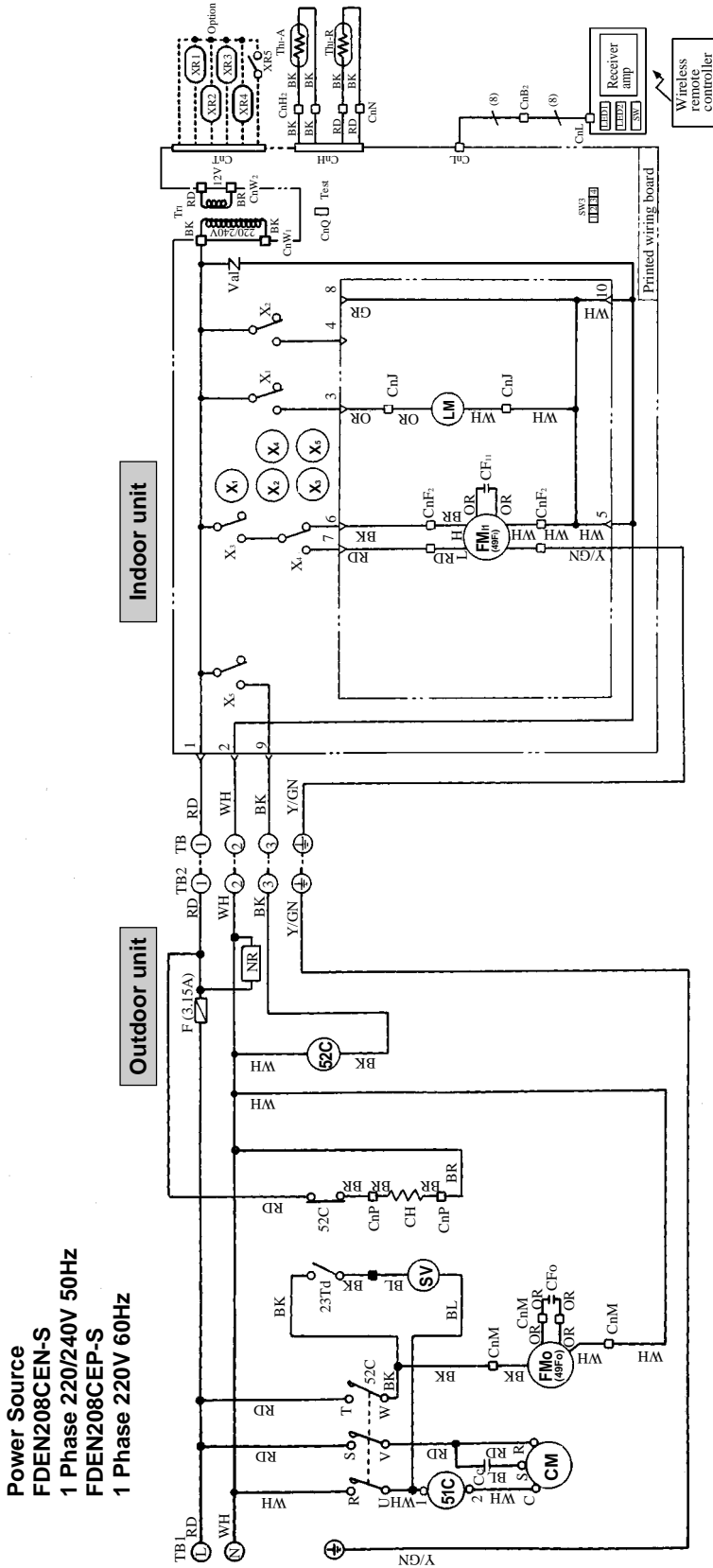
Noise level 59 dB (A)



## 9.3 ELECTRICAL DATA

### 9.3.1 Electrical wiring

Models FDEN208CEN-S, 208CEP-S

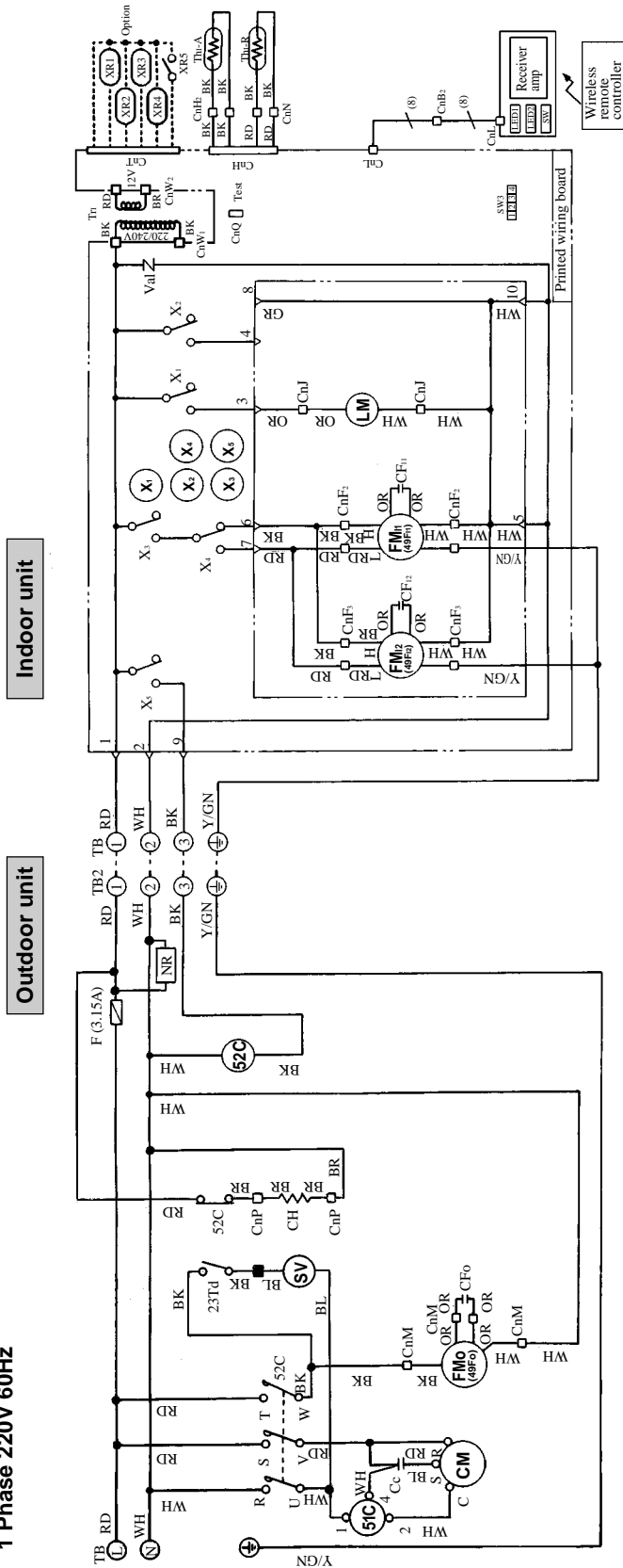


Color mark	
Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
RD	Red
WH	White
Y/GN	Yellow/Green

Meaning of marks		
Mark	Parts name	Mark
CC	Capacitor for CM	TB
CFi	Capacitor for FMi	Th-A
CFo	Capacitor for FMo	Th-R
CH	Crankcase heater	Tr
CM	Compressor motor	Vai
CnA-W	Connector	23Td
F	Fuse	49Fi
FMi	Fan motor (Indoor unit)	49Fo
FMo	Fan motor (Outdoor unit)	51C
LED1	Indication lamp (Green-Run)	52C
LED2	Indication lamp (Yellow-Check)	X1-6
LM	Louver motor	▽
SV	Solenoid coil (for control)	NR
SW	Back up switch (ON/OFF)	■
	Capacitor for CM	Terminal block (O mark)
	Capacitor for FMi	Thermistor
	Capacitor for FMo	Thermistor
	Crankcase heater	Transformer
	Compressor motor	Varistor
	Connector	Thermostat
	Fuse	Internal thermostat for FMi
	Fan motor (Indoor unit)	Internal thermostat for FMo
	Fan motor (Outdoor unit)	Overcurrent relay for CM
	Indication lamp (Green-Run)	Magnetic contactor for CM
	Indication lamp (Yellow-Check)	Auxiliary relay
	Louver motor	Terminal (F)
	Solenoid coil (for control)	Surge suppressor
	Back up switch (ON/OFF)	Connector

**Models FDEN258CEN-S, 258CEP-S**

**Power Source**  
**FDEN258CEN-S**  
 1 Phase 220/240V 50Hz  
**FDEN258CEP-S**  
 1 Phase 220V 60Hz



**Color mark**

Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
RD	Red
WH	White
Y/GN	Yellow/Green

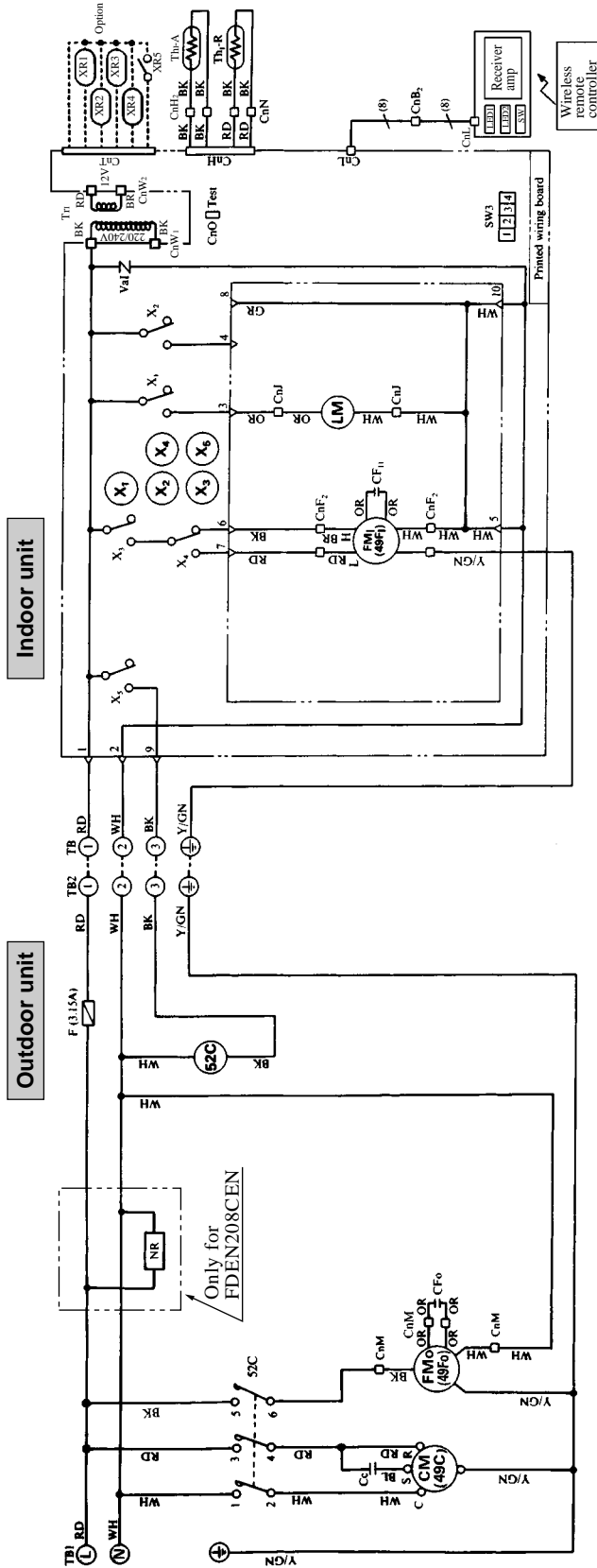
**Meaning of marks**

Mark	Parts name	Mark	Parts name
Cc	Capacitor for CM	TB	Terminal block (O mark)
CF1, 1, 2	Capacitor for FMi	Th-A	Thermistor
CFo	Capacitor for FMo	Th-R	Thermistor
CH	Crankcase heater	Tr	Transformer
CM	Compressor motor	Vai	Variator
CnA-W	Connector	23Td	Thermostat
F	Fuse	49Fo	Internal thermostat for FMo
FMi1, 2	Fan motor (Indoor unit)	49Fi, 1, 2	Internal thermostat for FMi
FMo	Fan motor (Outdoor unit)	51C	Overcurrent relay for CM
LED1	Indication lamp (Green-Run)	52C	Magnetic contactor for CM
LED2	Indication lamp (Yellow-Check)	X1~5	Auxiliary relay
LM	Louver motor	▽	Terminal (F)
SV	Solenoid coil (for control)	NR	Surge suppressor
SW	Back up switch (ON/OFF)	■	Connector

# FDEN-C

Models FDEN208CEN, 208CEP

Power Source  
 FDEN208CEN  
 1 Phase 220/240V 50Hz  
 FDEN208CEP  
 1 Phase 220V 60Hz



## Meaning of marks

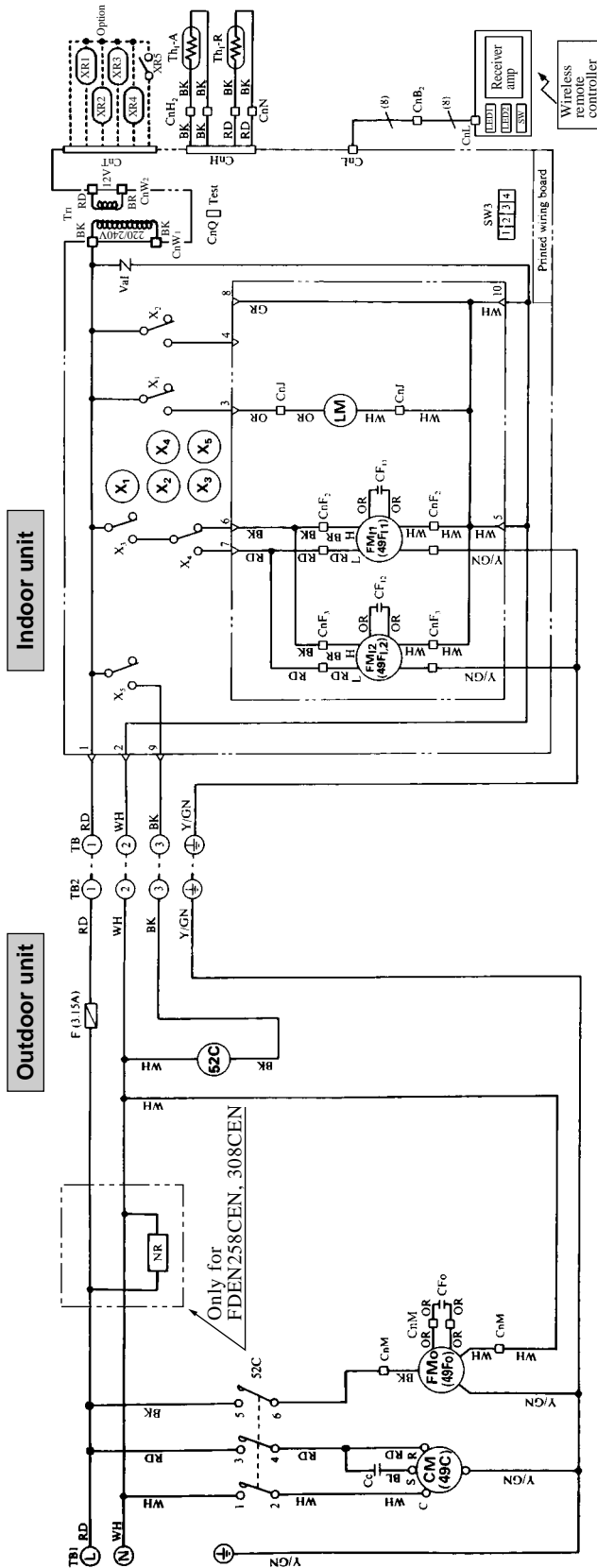
Mark	Parts name	Mark	Parts name
Cc	Capacitor for CM	Th-A	Thermistor
CF1	Capacitor for FMi	Th-R	Thermistor
CFo	Capacitor for FMo	Tr	Transformer
CM	Compressor motor	Vai	Varistor
CnA-W	Connector	49Fi	Internal thermostat for FMi
F	Fuse	49Co	Internal thermostat for CM
FMi	Fan motor (Indoor unit)	52C	Internal thermostat for FMo
FMo	Fan motor (Outdoor unit)	X1-5	Magnetic contactor for CM
LED1	Indication lamp (Green-Run)	△	Auxiliary relay
LED2	Indication lamp (Yellow-Check)	Terminal (F)	Surge suppressor
LM	Louver motor	NR	Connector
SW	Back up switch (ON/OFF)	■	
TB	Terminal block (○ mark)		

## Color mark

Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
RD	Red
WH	White
Y/GN	Yellow/Green

Models **FDEN258CEN, 258CEP, 308CEN, 308CEP**

**Power Source**  
**FDEN258CEN, 308CEN**  
 1 Phase 220/240V 50Hz  
**FDEN258CEP, 308CEP**  
 1 Phase 220V 60Hz



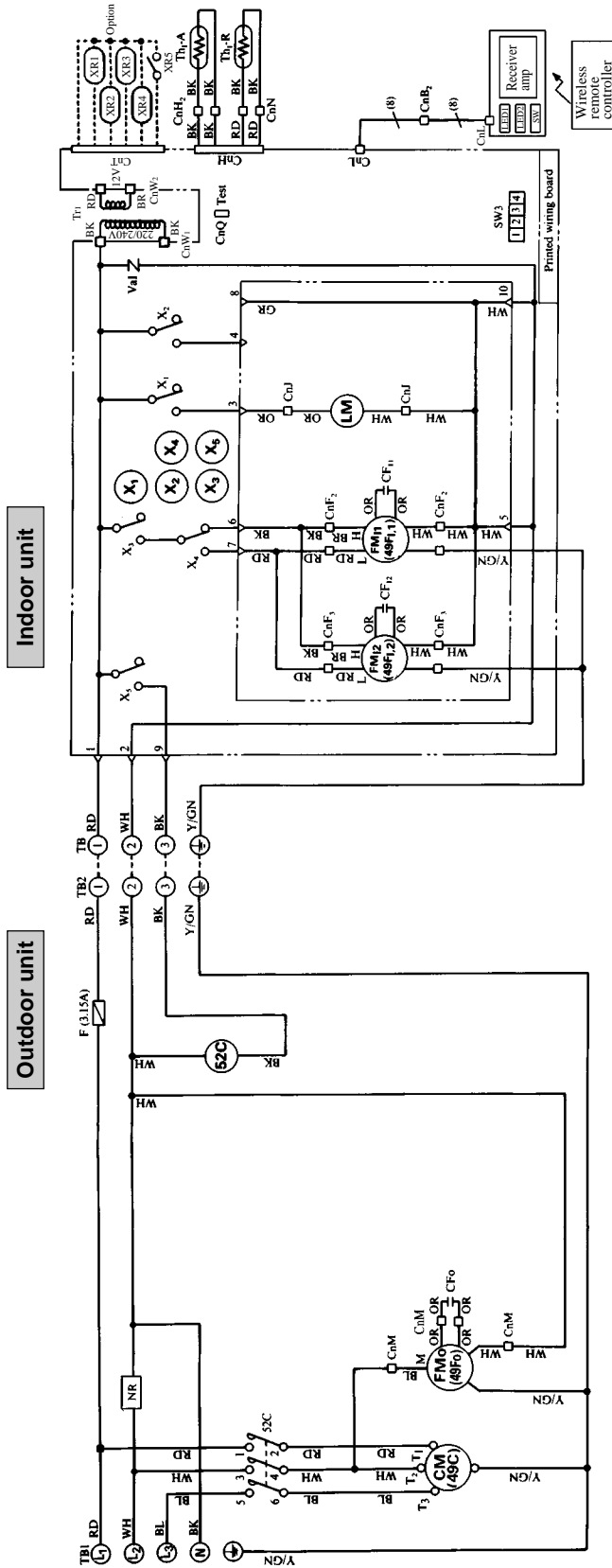
**Meaning of marks**

Mark	Parts name	Mark	Parts name
Cc	Capacitor for CM	Th-A	Thermistor
CF1, 1,2	Capacitor for FMI	Th-R	Thermistor
CFo	Capacitor for FMo	Tr	Transformer
CM	Compressor motor	Vai	Varistor
CnA-W	Connector	49C	Internal thermostat for CM
F	Fuse	49Fo	Internal thermostat for FMo
FMI 1,2	Fan motor (Indoor unit)	52C	Internal thermostat for FMI
FMo	Fan motor (Outdoor unit)	X1-5	Magnetic contactor for CM
LED1	Indication lamp (Green-Run)	△	Auxiliary relay
LED2	Indication lamp (Yellow-Check)	NR	Terminal (F)
LM	Louver motor	■	Surge suppressor
SW	Back up switch (ON/OFF)		Connector
TB	Terminal block (○ mark)		

**Color mark**

Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
RD	Red
WH	White
Y/GN	Yellow/Green

**Power Source**  
3 Phase 380-415V 50Hz/380V 60Hz



**Meaning of marks**

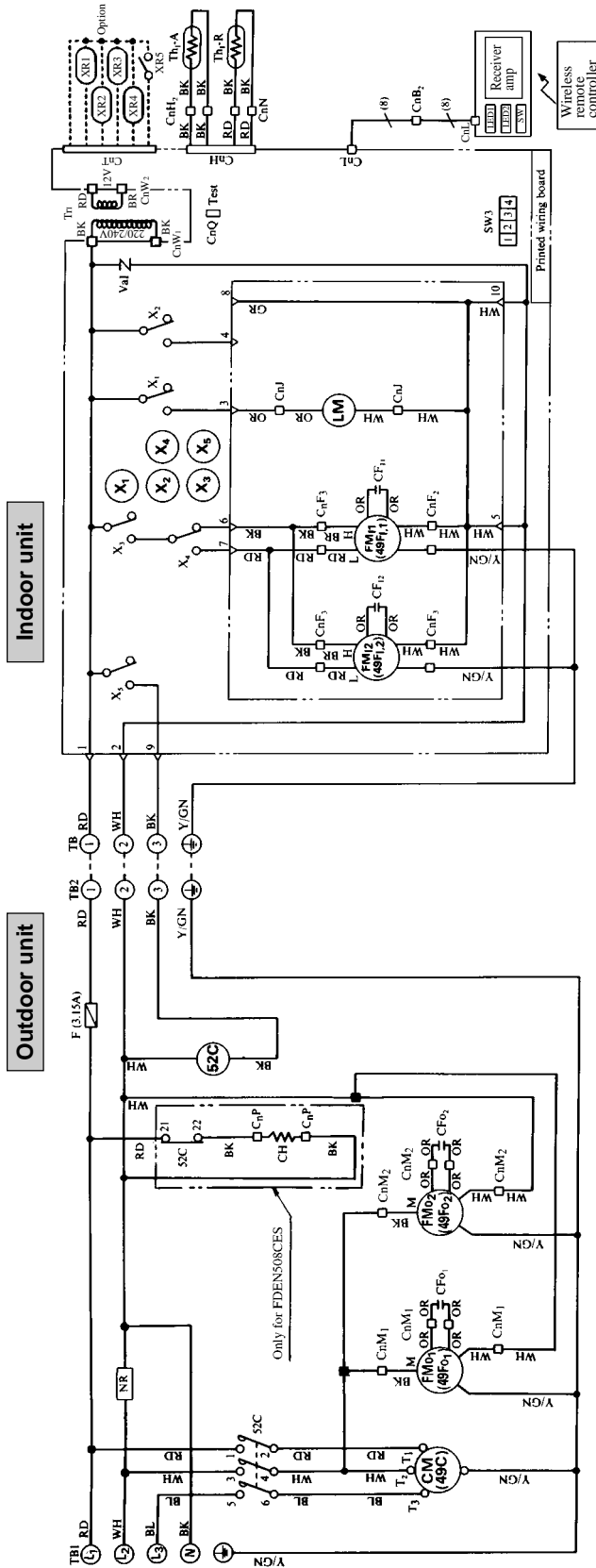
Mark	Parts name	Mark	Parts name
CF1,1,2	Capacitor for FMI	Th-A	Thermistor
CFo	Capacitor for FMo	Th-R	Thermistor
CM	Compressor motor	Tri	Transformer
CnA-W	Connector	Vai	Varistor
F	Fuse	49C	Internal thermostat for CM
FMI1,1,2	Fan motor (Indoor unit)	49Fo	Internal thermostat for FMo
FMo	Fan motor (Outdoor unit)	49F1,1,2	Internal thermostat for FMI
LED1	Indication lamp (Green-Run)	52C	Magnetic contactor for CM
LED2	Indication lamp (Yellow-Check)	X1-5	Auxiliary relay
LM	Louver motor	△	Terminal (F)
SW	Back up switch (ON/OFF)	NR	Surge suppressor
TB	Terminal block (○ mark)	■	Connector

**Color mark**

Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
RD	Red
WH	White
Y/GN	Yellow/Green

Models FDEN408CES, 508CES

**Power Source**  
3 Phase 380-415V 50Hz/380V 60Hz



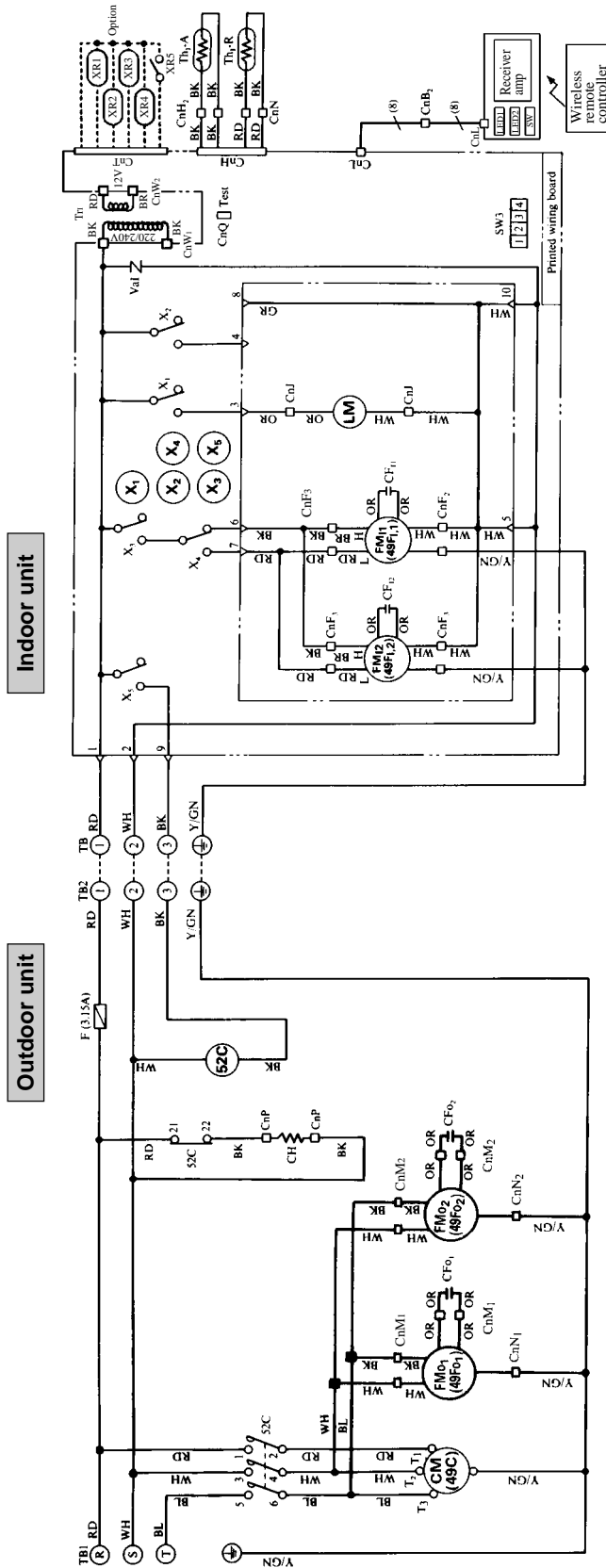
**Meaning of marks**

Mark	Parts name	Mark	Parts name
CF1,1,2	Capacitor for FMI	Th-A	Thermistor
CF01,2	Capacitor for FMO	Th-R	Thermistor
CH	Crankcase heater	Tr1	Transformer
CM	Compressor motor	Val	Varistor
CnA-W	Connector	49C	Internal thermostat for CM
F	Fuse	49F1,1,2	Internal thermostat for FMO
FMI,1,2	Fan motor (Indoor unit)	52C	Internal thermostat for FMI
FMO1,2	Fan motor (Outdoor unit)	X1-5	Magnetic contactor for CM
LED1	Indication lamp (Green-Run)	Y/GN	Auxiliary relay
LED2	Indication lamp (Yellow-Check)	NR	Terminal (F)
LM	Louver motor	SW	Surge suppressor
SW	Back up switch (ON/OFF)	○ mark	Connector
TB	Terminal block (○ mark)		

**Color mark**

Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
RD	Red
WH	White
Y/GN	Yellow/Green

**Power Source**  
3 Phase 230V 50Hz/220V 60Hz



**Meaning of marks**

Mark	Parts name	Mark	Parts name
CF1,1,2	Capacitor for FMI	TB	Terminal block (O mark)
CF01,2	Capacitor for FMO	Th-A	Thermistor
CH	Crankcase heater	Th-R	Thermistor
CM	Compressor motor	Tr1	Transformer
CnA-W	Connector	Vai	Varistor
F	Fuse	49C	Internal thermostat for CM
FMI, 1,2	Fan motor (Indoor unit)	49FI,1,2	Internal thermostat for FMI
FMO1,2	Fan motor (Outdoor unit)	49FO1,2	Internal thermostat for FMO
LED1	Indication lamp (Green-Run)	52C	Magnetic contactor for CM
LED2	Indication lamp (Yellow-Check)	X1-5	Auxiliary relay
LM	Louver motor	▽	Terminal (F)
SW	Back up switch (ON/OFF)	■	Connector

**Color mark**

Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
RD	Red
WH	White
Y/GN	Yellow/Green



## **9.4 OUTLINE OF OPERATION CONTROL BY MICROCOMPUTER**

Except for function relating to heating, same as the unit for FDT(N) heat pump type. See page 241.

## **9.5 APPLICATION DATA**

The application data for the cooling only models are similar to those for the heat pump models. (See page 380.)

## **9.6 MAINTENANCE DATA**

Same as the cooling /heating equipment for FDT(N) heat pump type. Refer to page 271.