

**7. CEILING RECESSED TYPE  
PACKAGED AIR CONDITIONER  
( Split system, Air cooled )  
Cooling only type**

**FDTN208CEN-S, FDTN208CEP-S  
FDTN208CEN, FDTN208CEP  
FDTN258CEN-S, FDTN258CEP-S  
FDTN258CEN, FDTN258CEP  
FDTN308CEN, FDTN308CEP  
FDTN308CES, FDTN408CES  
FDTN508CES, FDTN508CEM**

**FDT208CEN-S, FDT258CEN-S  
FDT308CEN, FDT308CES  
FDT408CES, FDT508CES**

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## 7.1 GENERAL INFORMATION

### 7.1.1 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) All air supply ports have auto swing louvers. The indoor fan motor has two speeds of high and low.
- (5) All models have control valves protruding from the outdoor unit for faster flare connection work in the field.

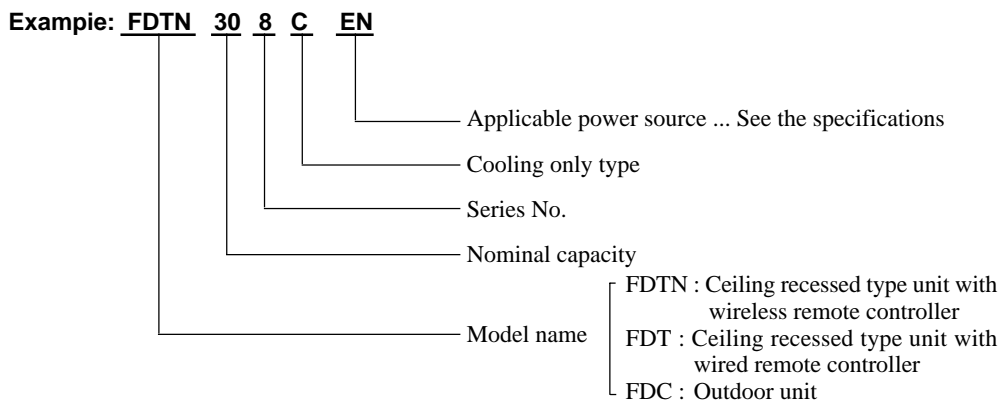
**(6) Low sound level**

Operating noise has been remarkably reduced due to adoption of the crescent turbo fan which cuts off wind-blowing noise and also console type of cabinet which is highly effective to protect vibration.

**(7) 700mm high drain head**

Adoption of drain pump with high drain head and high capacity (600cc/min) has made it possible to have maximum 700 mm (from below ceiling drain head. [In case 700mm drain head is required, set it up close to the unit. It is impossible to do piping on down slope.]

### 7.1.2 How to read the model name



## 7.2 SELECTION DATA

### 7.2.1 Specifications

(a) Wireless remote controller type

Model FDTN208CEN-S

Item		Model	FDTN208CEN-S	
			FDTN208C	FDC208CEN3
<b>Nominal cooling capacity<sup>(1)</sup></b>		W	<b>5000</b>	
<b>Power source</b>			<b>1 Phase, 220/240V, 50Hz</b>	
Operation data <sup>(3)</sup>	Cooling input	kW	1.78/1.87	
	Running current (Cooling)	A	8.3/8.1	
	Power factor (Cooling)	%	97/96	
	Inrush current (L.R.A)	A	44	
	Noise level <sup>(4)</sup>	dB(A)	Hi:38 Lo:33	52
<b>Exterior dimensions</b>				
<b>Height × Width × Depth</b>		mm	<b>Unit 215 × 700 × 700</b> <b>Panel 26 × 800 × 800</b>	<b>690 × 880 × 290</b>
<b>Net weight</b>		kg	<b>23 (Unit:18 Panel:5)</b>	<b>49</b>
<b>Refrigerant equipment</b>				
<b>Compressor type &amp; Q'ty</b>			–	<b>RM5523GNE4 × 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			Turbo fan × 1	Propeller fan × 1
Motor	W		30 × 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>			Available	–
Air filter, Q'ty			Long life filter × 1 (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>		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 VP25)	–
Insulation for piping			Necessary (both Liquid & Gas lines)	
Accessories			Mounting kit. Wireless remote controller.	
Optional parts			Decorative Panel	

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 and 240V respectively.

(4) Indicates the value at mild mode.

**Model FDTN208CEP-S**

Item	Model	FDTN208CEP-S	
		FDTN208C	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	1.78
	Running current (Cooling)	A	8.4
	Power factor (Cooling)	%	96
	Inrush current (L.R.A)	A	52
	Noise level <sup>(4)</sup>	dB(A)	Hi:38 Lo:33
<b>Exterior dimensions</b>			
<b>Height × Width × Depth</b>	mm	<b>Unit 215 × 700 × 700 Panel 26 × 800 × 800</b>	<b>690 × 880 × 290</b>
<b>Net weight</b>	kg	<b>23 (Unit:18 Panel:5)</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		Turbo fan × 1	Propeller fan × 1
Motor	W	30 × 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>		Available	–
Air filter, Q'ty		Long life filter × 1 (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 VP25)	–
Insulation for piping		Necessary (both Liquid & Gas lines)	
Accessories		Mounting kit. Wireless remote controller.	
Optional parts		Decorative Panel	

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 FDTN258CEN-S

Item		Model	FDTN258CEN-S	
			FDTN258C	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	2.05/2.16	
	Running current (Cooling)	A	9.4/9.4	
	Power factor (Cooling)	%	99/96	
	Inrush current (L.R.A)	A	51	
	Noise level <sup>(4)</sup>	dB(A)	Hi:39 Lo:35	52
<b>Exterior dimensions</b>		mm	<b>Unit 260 × 840 × 840</b>	
<b>Height × Width × Depth</b>			<b>Panel 30 × 950 × 950</b>	
<b>Net weight</b>		kg	<b>30 (Unit:24 Panel:6)</b>	
<b>Refrigerant equipment</b>				
<b>Compressor type &amp; Q'ty</b>			<b>RM5526GNE4 × 1</b>	
Motor		kW	1.9	
Starting method			Line starting	
<b>Heat exchanger</b>			Louver fins & inner grooved tubing	
Refrigerant control			Slitted fins & bare tubing	
Refrigerant control			Capillary tube	
<b>Refrigerant</b>			<b>R22</b>	
<b>Quantity</b>		kg	<b>Holding charged</b>	
<b>Refrigerant oil</b>		ℓ	<b>1.05 [Pre-charged up to the piping length of 5m]</b>	
High pressure control			<b>0.7 (BARREL FREEZE 32 SAM)</b>	
<b>Air handling equipment</b>				
Fan type & Q'ty			Turbo fan × 1	
Motor		W	Propeller fan × 1	
Starting method			25 × 1	
<b>Air flow (Standard)</b>		CMM	Line starting	
<b>Fresh air intake</b>			Line starting	
Air filter, Q'ty			Available	
Shock & vibration absorber			Long life filter × 1 (washable)	
Electric heater		W	Rubber sleeve (for fan motor)	
<b>Operation control</b>			Rubber mount (for compressor)	
Operation switch			20 (Cank case heater)	
Room temperature control			Wireless remote control switch	
<b>Safety equipment<sup>(4)</sup></b>			Thermostat by electronics	
Internal thermostat for fan motor.			-	
Frost protection thermostat.			Internal thermostat for fan motor.	
<b>Installation data</b>		mm	Thermostat for discharge temperature.	
<b>Refrigerant piping size</b>		(in)	<b>Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")</b>	
<b>Connecting method</b>			<b>Flare piping</b>	
<b>Drain hose</b>			(Connectable with VP25)	
Insulation for piping			Necessary (both Liquid & Gas lines)	
Accessories			Mounting kit. Wireless remote controller.	
Optional parts			Decorative Panel	

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 FDTN258CEP-S**

Item		Model	FDTN258CEP-S	
			FDTN258C	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:39 Lo:35	52
<b>Exterior dimensions</b>				
<b>Height × Width × Depth</b>		mm	<b>Unit 260 × 840 × 840</b> <b>Panel 30 × 950 × 950</b>	<b>845 × 880 × 340</b>
<b>Net weight</b>		kg	<b>30 (Unit:24 Panel:6)</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>1.13 [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			Turbo fan × 1	Propeller fan × 1
Motor		W	25 × 1	55 × 1
Starting method			Line starting	Line starting
<b>Air flow (Standard)</b>		<b>CMM</b>	<b>Hi:16 Lo:11</b>	<b>56</b>
<b>Fresh air intake</b>			Available	-
Air filter, Q'ty			Long life filter × 1 (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 VP25)	-
Insulation for piping			Necessary (both Liquid & Gas lines)	
Accessories			Mounting kit. Wireless remote controller.	
Optional parts			Decorative Panel	

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 FDTN208CEN**

Item		Model		FDTN208CEN	
				FDTN208C	FDC206CEN3
<b>Nominal cooling capacity<sup>(1)</sup></b>		ISO-T1	W	5000	
		ISO-T3		4100	
<b>Power source</b>		1 Phase, 220/240V, 50Hz			
Operation data <sup>(3)</sup>	ISO-T1	Cooling input	kW	2.09/2.12	
		Running current (Cooling)	A	10.0/9.8	
		Power factor (Cooling)	%	95/90	
	ISO-T3	Cooling input	kW	2.35/2.37	
		Running current (Cooling)	A	11.1/10.9	
		Power factor (Cooling)	%	96/91	
		Inrush current (L.R.A)	A	47	
		Noise level <sup>(4)</sup>	dB(A)	Hi:38 Lo:33	59
<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>		mm	Unit 215 × 700 × 700 Panel 26 × 800 × 800	615 × 850 × 290 + 30	
<b>Net weight</b>		kg	23 (Unit:18 Panel:5)	55	
<b>Refrigerant equipment</b>					
<b>Compressor type &amp; Q'ty</b>				RC5520ENE1 × 1	
Motor		kW	-	1.49	
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	<b>Holding charged</b>	0.9 [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		Turbo fan × 1		Propeller fan × 1	
Motor		W	30 × 1	55 × 1	
Starting method		Line starting		Line starting	
<b>Air flow (Standard)</b>		CMM	Hi:14 Lo:10	42	
<b>Fresh air intake</b>		Available		-	
Air filter, Q'ty		Long life filter × 1 (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 VP25)		-	
Insulation for piping		Necessary (both Liquid & Gas lines)			
Accessories		Mounting kit. Wireless remote controller.			
Optional parts		Decorative Panel			

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 and 240V respectively.

(4) Indicates the value at mild mode.



**Model FDTN208CEP**

Item		Model		FDTN208CEP	
				FDTN208C	FDC206CEP3
<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>	<b>ISO-T1</b>	Cooling input	kW	2.08	
		Running current (Cooling)	A	9.7	
		Power factor (Cooling)	%	97	
	<b>ISO-T3</b>	Cooling input	kW	2.34	
		Running current (Cooling)	A	11.0	
		Power factor (Cooling)	%	97	
		Inrush current (L.R.A)	A	50	
		Noise level <sup>(4)</sup>	dB(A)	Hi:38 Lo:33	59
<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>		<b>mm</b>	<b>Unit 215 × 700 × 700</b>		<b>615 × 850 × 290 + 30</b>
			<b>Panel 26 × 800 × 800</b>		
<b>Net weight</b>		<b>kg</b>	<b>23 (Unit:18 Panel:5)</b>		<b>55</b>
<b>Refrigerant equipment</b>					
<b>Compressor type &amp; Q'ty</b>			-		<b>RC5520EPE1 × 1</b>
Motor		kW	-		<b>1.31</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>	1.15 [Pre-charged up to the piping length of 5m]	
<b>Refrigerant oil</b>		<b>ℓ</b>	-	1.63 (SUNISO 3GS)	
High pressure control			High pressure regulator valve		
<b>Air handling equipment</b>					
Fan type & Q'ty			Turbo fan × 1		Propeller fan × 1
Motor		W	30 × 1		55 × 1
Starting method			Line starting		Line starting
<b>Air flow (Standard)</b>		<b>CMM</b>	<b>Hi:14 Lo:10</b>		<b>44</b>
<b>Fresh air intake</b>			Available		
Air filter, Q'ty			Long life filter × 1 (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>Refrigerant piping size</b>		<b>(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 VP25)		-
Insulation for piping			Necessary (both Liquid & Gas lines)		
Accessories			Mounting kit, Wireless remote controller.		
Optional parts			Decorative Panel		

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 FDTN258CEN

Item		Model		FDTN258CEN	
				FDTN258C	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	2.59/2.63	
		Running current (Cooling)	A	12.6/13.2	
		Power factor (Cooling)	%	93/83	
	ISO-T3	Cooling input	kW	2.77/2.81	
		Running current (Cooling)	A	13.4/14.0	
		Power factor (Cooling)	%	94/84	
		Inrush current (L.R.A)	A	64	
		Noise level <sup>(4)</sup>	dB(A)	Hi:39 Lo:35	59
<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>		<b>mm</b>	<b>Unit 260 × 840 × 840</b> <b>Panel 30 × 950 × 950</b>	<b>615 × 850 × 290 + 30</b>	
<b>Net weight</b>		<b>kg</b>	<b>30 (Unit:24 Panel:6)</b>	<b>56</b>	
<b>Refrigerant equipment</b>				<b>RC5527ENE1 × 1</b>	
<b>Compressor type &amp; Q'ty</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>	<b>ℓ</b>	-	<b>1.63 (SUNISO 3GS)</b>	
	High pressure control		High pressure regulator valve		
<b>Air handling equipment</b>					
	Fan type & Q'ty		Turbo fan × 1	Propeller fan × 1	
	Motor	W	25 × 1	55 × 1	
	Starting method		Line starting	Line starting	
	<b>Air flow (Standard)</b>	<b>CMM</b>	<b>Hi:16 Lo:11</b>	<b>42</b>	
	<b>Fresh air intake</b>		Available	-	
	Air filter, Q'ty		Long life filter × 1 (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 VP25)	-	
Insulation for piping			Necessary (both Liquid & Gas lines)		
Accessories			Mounting kit. Wireless remote controller.		
Optional parts			Decorative Panel		

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 FDTN258CEP**

Item		Model		FDTN258CEP	
				FDTN258C	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:39 Lo:35	59
<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>		mm	Unit 260 × 840 × 840 Panel 30 × 950 × 950		615 × 850 × 290 + 30
<b>Net weight</b>		kg	30 (Unit:24 Panel:6)		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			
<b>Quantity</b>		kg	Holding charged		1.35 [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		Turbo fan × 1		Propeller fan × 1	
Motor		W	25 × 1		55 × 1
Starting method		Line starting		Line starting	
<b>Air flow (Standard)</b>		CMM	Hi:16 Lo:11		44
<b>Fresh air intake</b>		Available			
Air filter, Q'ty		Long life filter × 1 (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 VP25)		-	
Insulation for piping		Necessary (both Liquid & Gas lines)			
Accessories		Mounting kit. Wireless remote controller.			
Optional parts		Decorative Panel			

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 FDTN308CEN

Item		Model		FDTN308CEN	
				FDTN308C	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>	<b>ISO-T1</b>	Cooling input	kW	3.07/3.11	
		Running current (Cooling)	A	15.6/16.3	
		Power factor (Cooling)	%	89/79	
	<b>ISO-T3</b>	Cooling input	kW	3.26/3.30	
		Running current (Cooling)	A	16.6/17.3	
		Power factor (Cooling)	%	89/79	
		Inrush current (L.R.A)	A	89	
		Noise level <sup>(4)</sup>	dB(A)	Hi:41 Lo:35	56
<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>		<b>mm</b>	<b>Unit 260 × 840 × 840</b>		<b>844 × 950 × 340</b>
			<b>Panel 30 × 950 × 950</b>		
<b>Net weight</b>		<b>kg</b>	<b>30 (Unit:24 Panel:6)</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>		<b>ℓ</b>	-	<b>1.63 (SUNISO 3GS)</b>	
High pressure control				High pressure regulator valve	
<b>Air handling equipment</b>					
Fan type & Q'ty				Turbo fan × 1	Propeller fan × 1
Motor		W	30 × 1		60 × 1
Starting method				Line starting	Line starting
<b>Air flow (Standard)</b>		<b>CMM</b>	<b>Hi:17 Lo:12</b>		<b>54</b>
<b>Fresh air intake</b>				Available	
Air filter, Q'ty				Long life filter × 1 (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>Refrigerant piping size</b>		<b>(in)</b>	<b>Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")</b>		
<b>Connecting method</b>				<b>Flare piping</b>	
<b>Drain hose</b>				(Connectable with VP25)	-
Insulation for piping				Necessary (both Liquid & Gas lines)	
Accessories				Mounting kit. Wireless remote controller.	
Optional parts				Decorative Panel	

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 FDTN308CEP**

Item		Model		FDTN308CEP		
				FDTN308C	FDC306CEP3	
<b>Nominal cooling capacity<sup>(1)</sup></b>		ISO-T1	W	7100		
		ISO-T3		5700		
<b>Power source</b>		1 Phase, 220V, 60Hz				
Operation data <sup>(3)</sup>	ISO-T1	Cooling input	kW	3.03		
		Running current (Cooling)	A	14.1		
		Power factor (Cooling)	%	98		
	ISO-T3	Cooling input	kW	3.26		
		Running current (Cooling)	A	15.2		
		Power factor (Cooling)	%	97		
		Inrush current (L.R.A)	A	78		
		Noise level <sup>(4)</sup>	dB(A)	Hi:41 Lo:35	59	
	<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>		mm	Unit 260 × 840 × 840 Panel 30 × 950 × 950		844 × 950 × 340	
<b>Net weight</b>		kg	30 (Unit:24 Panel:6)		67	
<b>Refrigerant equipment</b>				RC5533EPE1 × 1		
<b>Compressor type &amp; Q'ty</b>				-		
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		
<b>Quantity</b>		kg	Holding charged		1.3 [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				Turbo fan × 1	Propeller fan × 1	
Motor		W	30 × 1		60 × 1	
Starting method				Line starting	Line starting	
<b>Air flow (Standard)</b>		CMM	Hi:17 Lo:12		56	
<b>Fresh air intake</b>				Available		
Air filter, Q'ty				Long life filter × 1 (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 protector for compressor. Internal thermostat for fan motor. Internal Pressure relief valve for compressor.		
<b>Installation data</b>		mm				
<b>Refrigerant piping size</b>		(in)	Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")			
<b>Connecting method</b>				Flare piping		
<b>Drain hose</b>				(Connectable with VP25)	-	
Insulation for piping				Necessary (both Liquid & Gas lines)		
Accessories				Mounting kit, Wireless remote controller.		
Optional parts				Decorative Panel		

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 FDTN308CES**

Item		Model		FDTN308CES	
				FDTN308C	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>	<b>ISO-T1</b>	Cooling input	kW	2.83/2.84/3.35	
		Running current (Cooling)	A	5.3/5.3/6.0	
		Power factor (Cooling)	%	81/75/85	
	<b>ISO-T3</b>	Cooling input	kW	3.02/3.03/3.58	
		Running current (Cooling)	A	5.7/5.7/6.5	
		Power factor (Cooling)	%	80/74/84	
		Inrush current (L.R.A)	A	43	
	Noise level <sup>(4)</sup>	dB(A)	Hi:41 Lo:35	59	
<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>		<b>mm</b>	<b>Unit 260 × 840 × 840</b>		<b>844 × 950 × 340</b>
			<b>Panel 30 × 950 × 950</b>		
<b>Net weight</b>		<b>kg</b>	<b>30 (Unit:24 Panel:6)</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>		<b>kg</b>	<b>Holding charged</b>	<b>1.3 [Pre-charged up to the piping length of 5m]</b>	
<b>Refrigerant oil</b>		<b>ℓ</b>	-	<b>1.63 (SUNISO 3GS)</b>	
High pressure control				High pressure regulator valve	
<b>Air handling equipment</b>					
Fan type & Q'ty				Turbo fan × 1	Propeller fan × 1
Motor		W	30 × 1		60 × 1
Starting method				Line starting	
<b>Air flow (Standard)</b>		<b>CMM</b>	<b>Hi:17 Lo:12</b>		<b>54/56</b>
<b>Fresh air intake</b>				Available	
Air filter, Q'ty				Long life filter × 1 (washable)	
Shock & vibration absorber				Rubber sleeve (for fan motor)	
Electric heater		W	-		-
<b>Operation control</b>					
Operation switch				Wireless remote control switch	
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 VP25)	-
Insulation for piping		Necessary (both Liquid & Gas lines)			
Accessories		Mounting kit. Wireless remote controller.			
Optional parts		Decorative Panel			

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 FDTN408CES**

Item		Model		FDTN408CES	
		FDTN408C		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>(3)</sup></b>	ISO-T1	Cooling input	kW	3.78/3.78/4.65	
		Running current (Cooling)	A	7.5/7.5/8.8	
		Power factor (Cooling)	%	77/70/80	
	ISO-T3	Cooling input	kW	4.12/4.12/5.15	
		Running current (Cooling)	A	8.1/8.1/9.5	
		Power factor (Cooling)	%	77/71/82	
	Inrush current (L.R.A)		A	45	
	Noise level <sup>(4)</sup>		dB(A)	Hi:48 Lo:40	57
<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>		<b>mm</b>	<b>Unit 320 × 840 × 840</b>	<b>1250 × 950 × 340</b>	
<b>Net weight</b>		<b>kg</b>	<b>34 (Unit:28 Panel:6)</b>	<b>80</b>	
<b>Refrigerant equipment</b>					
<b>Compressor type &amp; Q'ty</b>		<b>RC5547ESE1 × 1</b>			
Motor		kW	2.61		
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>		<b>ℓ</b>	-	<b>1.63 (SUNISO 3GS)</b>	
High pressure control		High pressure regulator valve			
<b>Air handling equipment</b>					
Fan type & Q'ty		Turbo fan × 1		Propeller fan × 2	
Motor		W	80 × 1	60 × 2	
Starting method		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>		Available			
Air filter, Q'ty		Long life filter × 1 (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 VP25)		-	
Insulation for piping		Necessary (both Liquid & Gas lines)			
Accessories		Mounting kit. Wireless remote controller.			
Optional parts		Decorative Panel			

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 FDTN508CES

Item		Model		FDTN508CES	
				FDTN508C	FDC506CES3
<b>Nominal cooling capacity<sup>(1)</sup></b>		ISO-T1	W	<b>12500/14000</b>	
		ISO-T3		<b>10600/11900</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>	<b>ISO-T1</b>	Cooling input	kW	4.87/4.87/5.83	
		Running current (Cooling)	A	10.0/10.0/11.0	
		Power factor (Cooling)	%	74/68/81	
	<b>ISO-T3</b>	Cooling input	kW	5.42/5.42/6.43	
		Running current (Cooling)	A	11.3/11.3/12.0	
		Power factor (Cooling)	%	73/67/81	
		Inrush current (L.R.A)	A	68	
		Noise level <sup>(4)</sup>	dB(A)	Hi:49 Lo:43	59
<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>		<b>mm</b>	<b>Unit 320 × 840 × 840</b>		<b>1250 × 950 × 340</b>
			<b>Panel 30 × 950 × 950</b>		
<b>Net weight</b>		<b>kg</b>	<b>36 (Unit:30 Panel:6)</b>		<b>85</b>
<b>Refrigerant equipment</b>					
<b>Compressor type &amp; Q'ty</b>				<b>RC5563ESE2 × 1</b>	
Motor		kW	-		<b>3.73</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>1.85 [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				Turbo fan × 1	Propeller fan × 2
Motor		W	130 × 1		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>				Available	-
Air filter, Q'ty				Long life filter × 1 (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>Refrigerant piping size</b>		<b>(in)</b>	<b>Liquid line: φ9.52 (3/8") Gas line: φ19.05 (3/4")</b>		
<b>Connecting method</b>				<b>Flare piping</b>	
<b>Drain hose</b>				(Connectable with VP25)	-
Insulation for piping				Necessary (both Liquid & Gas lines)	
Accessories				Mounting kit. Wireless remote controller.	
Optional parts				Decorative Panel	

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 FDTN508CEM**

Item		Model		FDTN508CEM	
		FDTN508C		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	4.62/5.56	
		Running current (Cooling)	A	15.0/16.4	
		Power factor (Cooling)	%	77/89	
	<b>ISO-T3</b>	Cooling input	kW	6.08	
		Running current (Cooling)	A	17.7	
		Power factor (Cooling)	%	90	
		Inrush current (L.R.A)	A	108	
	Noise level <sup>(4)</sup>	dB(A)	Hi:49 Lo:43	59	
<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>		<b>mm</b>	<b>Unit 320 × 840 × 840</b>		<b>1250 × 950 × 340</b>
			<b>Panel 30 × 950 × 950</b>		
<b>Net weight</b>		<b>kg</b>	<b>36 (Unit:30 Panel:6)</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				Turbo fan × 1	Propeller fan × 2
Motor		W	130 × 1		60 × 2
Starting method				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>				Available	
Air filter, Q'ty				Long life filter × 1 (washable)	
Shock & vibration absorber				Rubber sleeve (for fan motor)	
Electric heater		W	-		40 (Crank case heater)
<b>Operation control</b>					
Operation switch				Wireless remote control switch	
Room temperature control				Thermostat by electronics	
<b>Safety equipment</b>				Internal protector for compressor. Internal thermostat for fan motor. Internal Pressure relief valve for compressor.	
<b>Installation data</b>		<b>mm</b>			
<b>Refrigerant piping size</b>		<b>(in)</b>	<b>Liquid line: φ9.52 (3/8") Gas line: φ19.05 (3/4")</b>		
<b>Connecting method</b>				<b>Flare piping</b>	
<b>Drain hose</b>				(Connectable with VP25)	-
Insulation for piping				Necessary (both Liquid & Gas lines)	
Accessories				Mounting kit. Wireless remote controller.	
Optional parts				Decorative Panel	

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.

**(b) Wired remote controller type**  
**Model FDT208CEN-S**

Item	Model	FDT208CEN-S	
		FDT208	FDC208CEN3
<b>Nominal cooling capacity<sup>(1)</sup></b>	W	<b>5000</b>	
<b>Power source</b>		<b>1 Phase, 220/240V, 50Hz</b>	
<b>Operation data<sup>(3)</sup></b>	Cooling input	kW	1.78/1.87
	Running current (Cooling)	A	8.3/8.1
	Power factor (Cooling)	%	97/96
	Inrush current (L.R.A)	A	44
	Noise level <sup>(4)</sup>	dB(A)	Hi:38 Lo:33
<b>Exterior dimensions</b>			
<b>Height × Width × Depth</b>	<b>mm</b>	<b>Unit 215 × 700 × 700</b> <b>Panel 26 × 800 × 800</b>	<b>690 × 880 × 290</b>
<b>Net weight</b>	<b>kg</b>	<b>23 (Unit:18 Panel:5)</b>	<b>49</b>
<b>Refrigerant equipment</b>			
<b>Compressor type &amp; Q'ty</b>		-	<b>RM5523GNE4 × 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>	<b>kg</b>	<b>Holding charged</b>	<b>0.9 [Pre-charged up to the piping length of 0m]</b>
<b>Refrigerant oil</b>	<i>ℓ</i>	-	<b>0.7 (BARREL FREEZE 32 SAM)</b>
High pressure control		-	
<b>Air handling equipment</b>			
Fan type & Q'ty		Turbo fan × 1	Propeller fan × 1
Motor	W	30 × 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>		Available	
Air filter, Q'ty		Long life filter × 1 (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		Wired remote control switch (Optional:RCD-C-S-E)	- (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>mm</b>	<b>Liquid line: φ6.35 (1/4") 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 VP25)	-
Insulation for piping		Necessary (both Liquid & Gas lines)	
Accessories		Mounting kit.	
Optional parts		Decorative Panel	

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 FDT258CEN-S**

Item	Model	FDT258CEN-S	
		FDT258	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	2.05/2.16
	Running current (Cooling)	A	9.4/9.4
	Power factor (Cooling)	%	99/96
	Inrush current (L.R.A)	A	51
	Noise level <sup>(4)</sup>	dB(A)	Hi:39 Lo:35
<b>Exterior dimensions</b>	<b>mm</b>	<b>Unit 260 × 840 × 840</b>	<b>845 × 880 × 340</b>
<b>Height × Width × Depth</b>		<b>Panel 30 × 950 × 950</b>	
<b>Net weight</b>	<b>kg</b>	<b>30 (Unit:24 Panel:6)</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>	<b>kg</b>	<b>Holding charged</b>	<b>1.05 [Pre-charged up to the piping length of 5m]</b>
<b>Refrigerant oil</b>	<b>ℓ</b>	-	<b>0.7 (BARREL FREEZE 32 SAM)</b>
High pressure control			-
<b>Air handling equipment</b>			
Fan type & Q'ty		Turbo fan × 1	Propeller fan × 1
Motor	W	25 × 1	55 × 1
Starting method		Line starting	Line starting
<b>Air flow (Standard)</b>	<b>CMM</b>	<b>Hi:16 Lo:11</b>	<b>56</b>
<b>Fresh air intake</b>		Available	-
Air filter, Q'ty		Long life filter × 1 (washable)	-
Shock & vibration absorber		Rubber sleeve (for fan motor)	Rubber mount (for compressor)
Electric heater	W	-	20 (Cank case heater)
<b>Operation control</b>		Wired remote control switch	
Operation switch		(Optional:RCD-C-S-E)	- (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>	<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 VP25)	-
Insulation for piping		Necessary (both Liquid & Gas lines)	
Accessories		Mounting kit.	
Optional parts		Decorative Panel	

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 FDT308CEN**

Item		Model		FDT308CEN	
				FDT308	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>	<b>ISO-T1</b>	Cooling input	kW	3.07/3.11	
		Running current (Cooling)	A	15.6/16.3	
		Power factor (Cooling)	%	89/79	
	<b>ISO-T3</b>	Cooling input	kW	3.26/3.30	
		Running current (Cooling)	A	16.6/17.3	
		Power factor (Cooling)	%	89/79	
		Inrush current (L.R.A)	A	89	
		Noise level <sup>(4)</sup>	dB(A)	Hi:41 Lo:35	56
<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>			<b>mm</b>	<b>Unit 260 × 840 × 840 Panel 30 × 950 × 950</b>	
<b>Net weight</b>			<b>kg</b>	<b>30 (Unit:24 Panel:6)</b>	
<b>Refrigerant equipment</b>					
<b>Compressor type &amp; Q'ty</b>			-		
Motor			kW	-	
Starting method			-		
<b>Heat exchanger</b>			Louver fins & inner grooved tubing		
Refrigerant control			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>			ℓ	-	<b>1.63 (SUNISO 3GS)</b>
High pressure control			High pressure regulator valve		
<b>Air handling equipment</b>					
Fan type & Q'ty			Turbo fan × 1		
Motor			W	30 × 1	
Starting method			Line starting		
<b>Air flow (Standard)</b>			<b>CMM</b>	<b>Hi:17 Lo:12</b>	<b>54</b>
<b>Fresh air intake</b>			Available		
Air filter, Q'ty			Long life filter × 1 (washable)		
Shock & vibration absorber			Rubber sleeve (for fan motor)		
Electric heater			W	-	
<b>Operation control</b>			Wired remote control switch		
Operation switch			(Optional:RCD-C-S-E)		
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 VP25)		
Insulation for piping			Necessary (both Liquid & Gas lines)		
Accessories			Mounting kit.		
Optional parts			Decorative Panel		

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 FDT308CES**

Item		Model		FDT308CES	
				FDT308	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>	<b>ISO-T1</b>	Cooling input	kW	2.83/2.84/3.35	
		Running current (Cooling)	A	5.3/5.3/6.0	
		Power factor (Cooling)	%	81/75/85	
	<b>ISO-T3</b>	Cooling input	kW	3.02/3.03/3.58	
		Running current (Cooling)	A	5.7/5.7/6.5	
		Power factor (Cooling)	%	80/74/84	
		Inrush current (L.R.A)	A	43	
	Noise level <sup>(4)</sup>	dB(A)	Hi:41 Lo:35	59	
<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>		<b>mm</b>	<b>Unit 260 × 840 × 840</b>		<b>844 × 950 × 340</b>
			<b>Panel 30 × 950 × 950</b>		
<b>Net weight</b>		<b>kg</b>	<b>30 (Unit:24 Panel:6)</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>		<b>kg</b>	<b>Holding charged</b>	<b>1.3 [Pre-charged up to the piping length of 5m]</b>	
<b>Refrigerant oil</b>		<b>ℓ</b>	-	<b>1.63 (SUNISO 3GS)</b>	
High pressure control				High pressure regulator valve	
<b>Air handling equipment</b>					
Fan type & Q'ty				Turbo fan × 1	Propeller fan × 1
Motor		W	30 × 1		60 × 1
Starting method				Line starting	
<b>Air flow (Standard)</b>		<b>CMM</b>	<b>Hi:17 Lo:12</b>		<b>54/56</b>
<b>Fresh air intake</b>				Available	
Air filter, Q'ty				Long life filter × 1 (washable)	
Shock & vibration absorber				Rubber sleeve (for fan motor)	Rubber mount (for compressor)
Electric heater		W	-		-
<b>Operation control</b>				Wired remote control switch	
Operation switch				(Optional:RCD-C-S-E)	
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>Refrigerant piping size</b>		<b>(in)</b>	<b>Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")</b>		
<b>Connecting method</b>		<b>Flare piping</b>			
<b>Drain hose</b>				(Connectable with VP25)	-
Insulation for piping		Necessary (both Liquid & Gas lines)			
Accessories		Mounting kit.			
Optional parts		Decorative Panel			

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 FDT408CES**

Item		Model		FDT408CES	
				FDT408	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>(3)</sup></b>	ISO-T1	Cooling input	kW	3.78/3.78/4.65	
		Running current (Cooling)	A	7.5/7.5/8.8	
		Power factor (Cooling)	%	77/70/80	
	ISO-T3	Cooling input	kW	4.12/4.12/5.15	
		Running current (Cooling)	A	8.1/8.1/9.5	
		Power factor (Cooling)	%	77/71/82	
		Inrush current (L.R.A)	A	45	
		Noise level <sup>(4)</sup>	dB(A)	Hi:48 Lo:40	57
<b>Exterior dimensions</b>					
<b>Height × Width × Depth</b>		<b>mm</b>	<b>Unit 320 × 840 × 840</b>	<b>1250 × 950 × 340</b>	
<b>Net weight</b>		<b>kg</b>	<b>34 (Unit:28 Panel:6)</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>	
	Quantity	<b>kg</b>	<b>Holding charged</b>	<b>1.55 [Pre-charged up to the piping length of 5m]</b>	
	Refrigerant oil	ℓ	-	<b>1.63 (SUNISO 3GS)</b>	
	High pressure control			High pressure regulator valve	
<b>Air handling equipment</b>					
	Fan type & Q'ty		Turbo fan × 1	Propeller fan × 2	
	Motor	W	80 × 1	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>		Available	-	
	Air filter, Q'ty		Long life filter × 1 (washable)	-	
	Shock & vibration absorber		Rubber sleeve (for fan motor)	Rubber mount (for compressor)	
	Electric heater	W	-	-	
<b>Operation control</b>					
	Operation switch		Wired remote control switch (Optional:RCD-C-S-E)	- (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 VP25)	-	
	Insulation for piping		Necessary (both Liquid & Gas lines)		
	Accessories		Mounting kit.		
	Optional parts		Decorative Panel		

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 FDT508CES**

Item		Model	FDT508CES		
			FDT508	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		4.87/4.87/5.83
		Running current (Cooling)	A		10.0/10.0/11.0
		Power factor (Cooling)	%		74/68/81
	ISO-T3	Cooling input	kW		5.42/5.42/6.43
		Running current (Cooling)	A		11.3/11.3/12.0
		Power factor (Cooling)	%		73/67/81
	Inrush current (L.R.A)		A		68
Noise level <sup>(4)</sup>		dB(A)		Hi:49 Lo:43 59	
Exterior dimensions					
Height × Width × Depth		mm	Unit 320 × 840 × 840 Panel 30 × 950 × 950	1250 × 950 × 340	
Net weight		kg	36 (Unit:30 Panel:6)	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		Turbo fan × 1 Propeller fan × 2			
Motor		W	130 × 1	60 × 2	
Starting method		Line starting Line starting			
Air flow (Standard)		CMM	Hi:28 Lo:20	100/110	
Fresh air intake		Available -			
Air filter, Q'ty		Long life filter × 1 (washable) -			
Shock & vibration absorber		Rubber sleeve (for fan motor) Rubber mount (for compressor)			
Electric heater		W	-	40 (Crank case heater)	
Operation control		Wired remote control switch (Optional:RCD-C-S-E) - (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 VP25) -			
Insulation for piping		Necessary (both Liquid & Gas lines)			
Accessories		Mounting kit.			
Optional parts		Decorative Panel			

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.

## 7.2.2 Range of usage & limitations

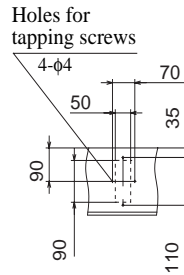
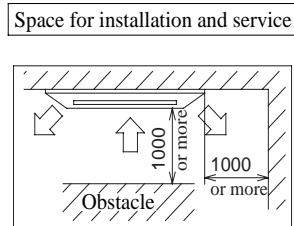
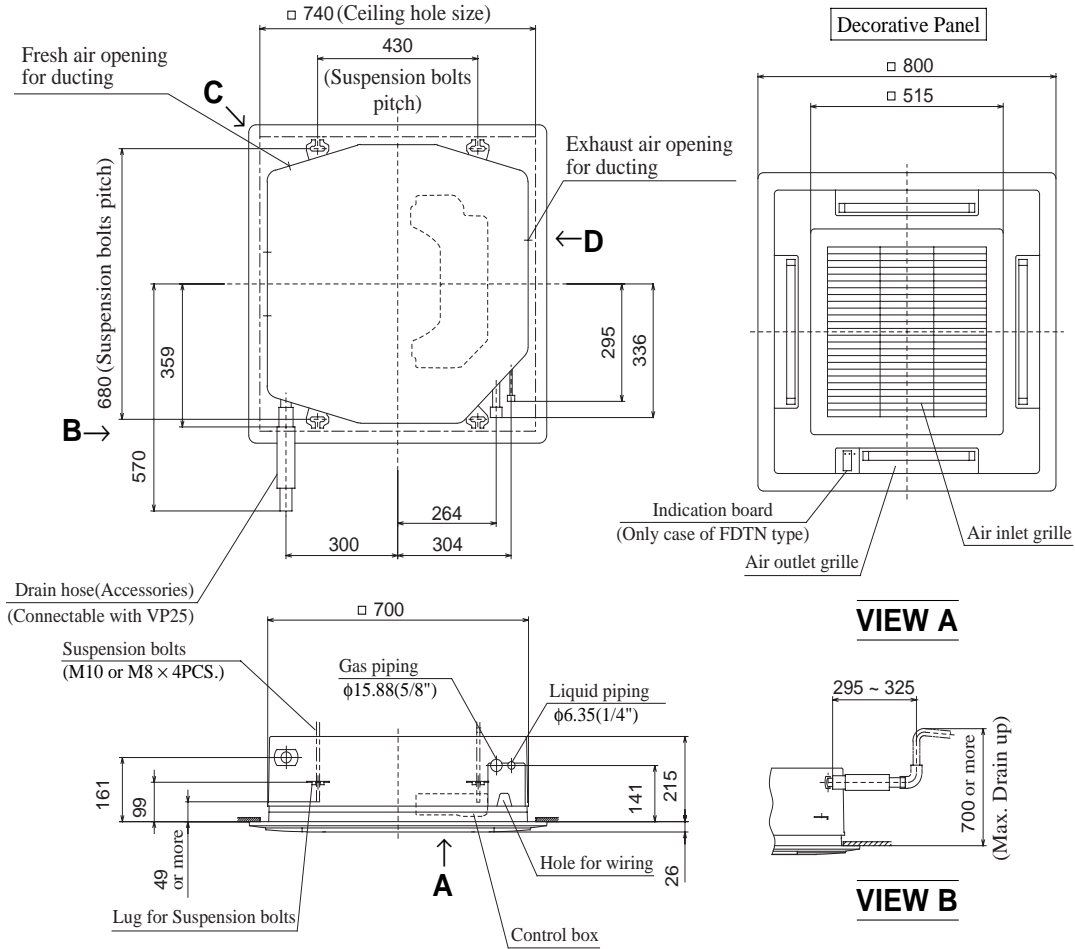
Item	Models	FDT(N)208, 258 (FDC208, 258 type)	FDT(N)208~508 (FDC206~506 type)
Indoor return air temperature (Upper, lower limits)	Refer to the selection chart		
Outdoor air temperature (Upper, lower limits)			
Indoor unit atmosphere (behind ceiling) temperature and humidity	Dew point temperature 28°C or less, relative humidity 80% or less		
Refrigerant line (one way) length	<b>Max. 30m</b>		
Vertical height difference between outdoor unit and indoor unit	<b>Max. 20m (Outdoor unit is higher) Max. 15m (Outdoor unit is lower)</b>	<b>Max. 15m</b>	
Power source voltage	Rating ± 10%		
Voltage at starting	Min. 85% of rating		
Frequency of ON-OFF cycle	<b>Max. 10 times/h</b>		
ON and OFF interval	<b>Min. 3 minutes</b>		



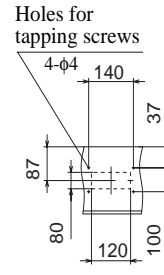
### 7.2.3 Exterior dimensions

- (1) Indoor unit  
**Models FDTN208C**  
**FDT208**

Unit : mm



**VIEW C**

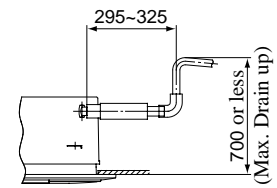
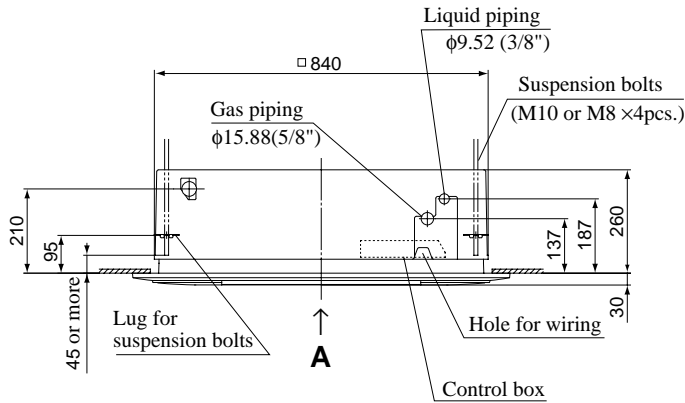
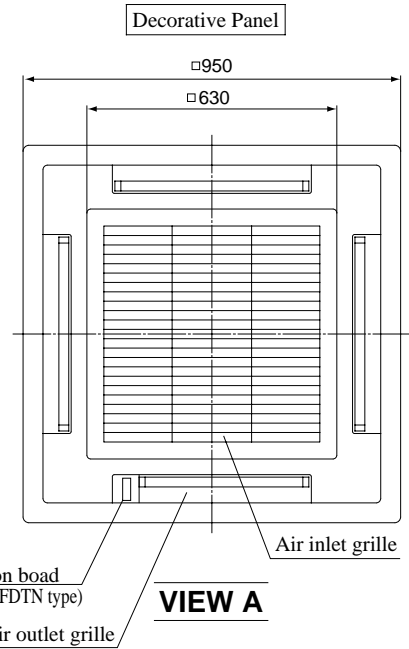
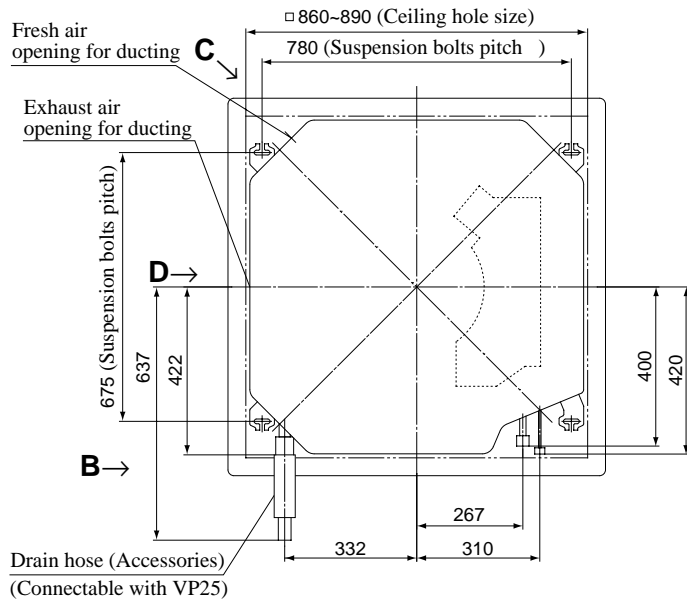


**VIEW D**

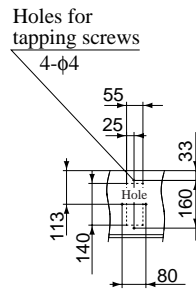
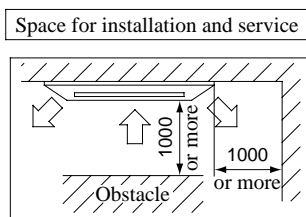
# FDTN-C

Models FDTN258C, 308C  
FDT258, 308

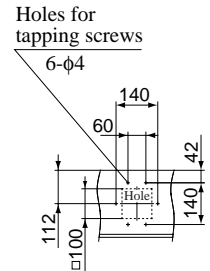
Unit : mm



**VIEW B**



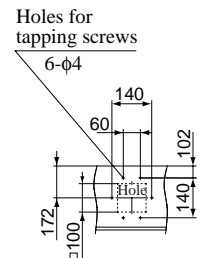
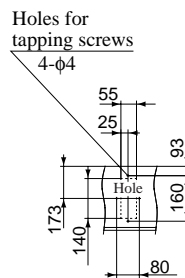
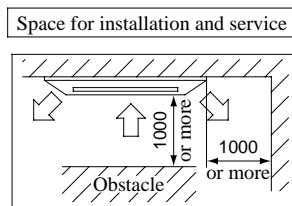
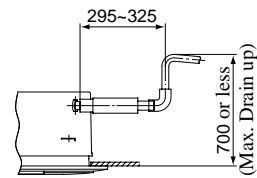
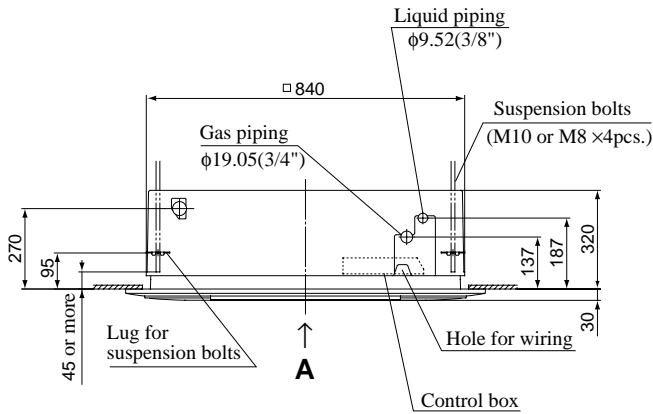
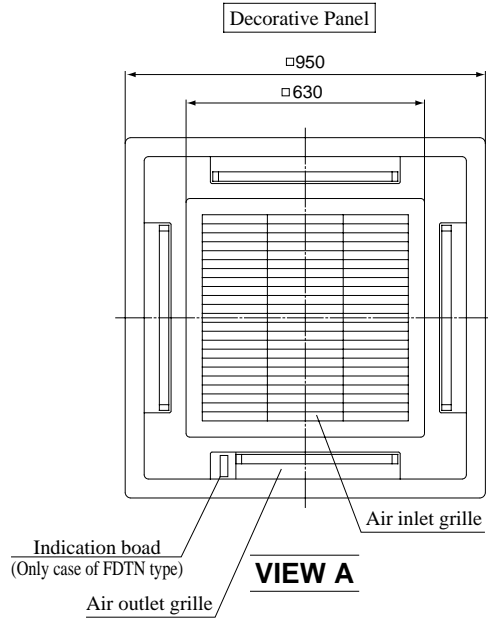
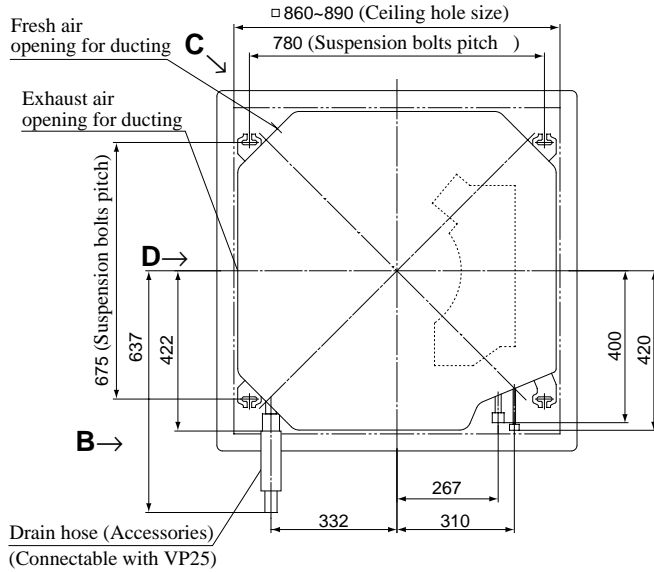
**VIEW C**



**VIEW D**

**Models FDTN408C, 508C  
FDT408, 508**

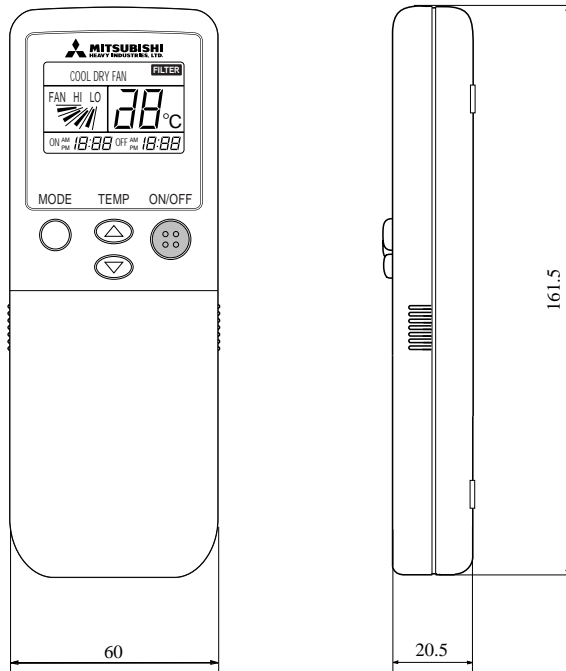
Unit : mm



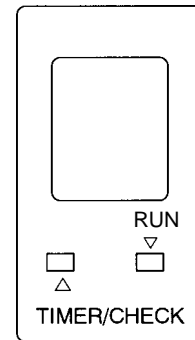
## (2) Remote controller

### (a) Wireless remote controller

Unit: mm

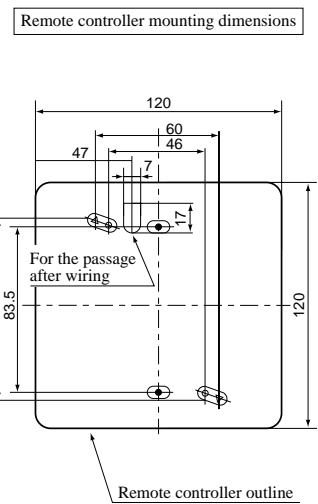
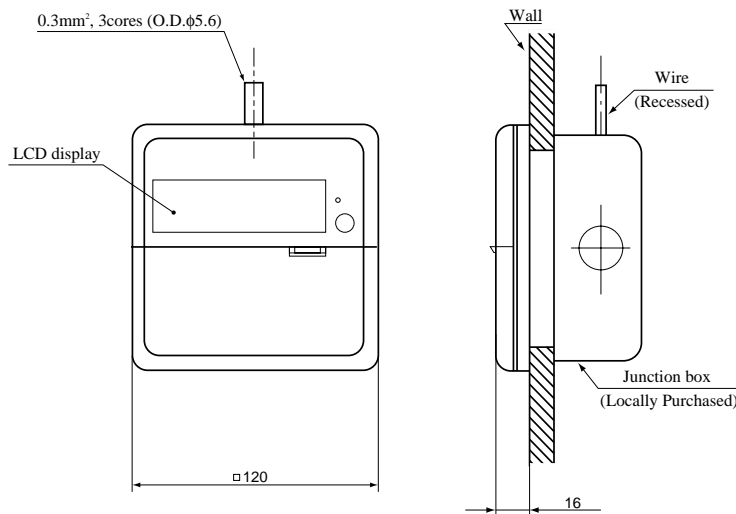


### Indication board of indoor unit



### (b) Wired remote controller (Optional parts)

Unit: mm



- ◆ Usable JIS box, JIS C 8336
  - Switch box for 1 piece (without cover)  
(use of the ● mark hole as illustrated on the left)
  - Switch box for 2 pieces  
(use of the ○ mark hole as illustrated on the left)  
(without cover)  
(use of the △ mark hole as illustrated on the left)  
(when installing the cover)

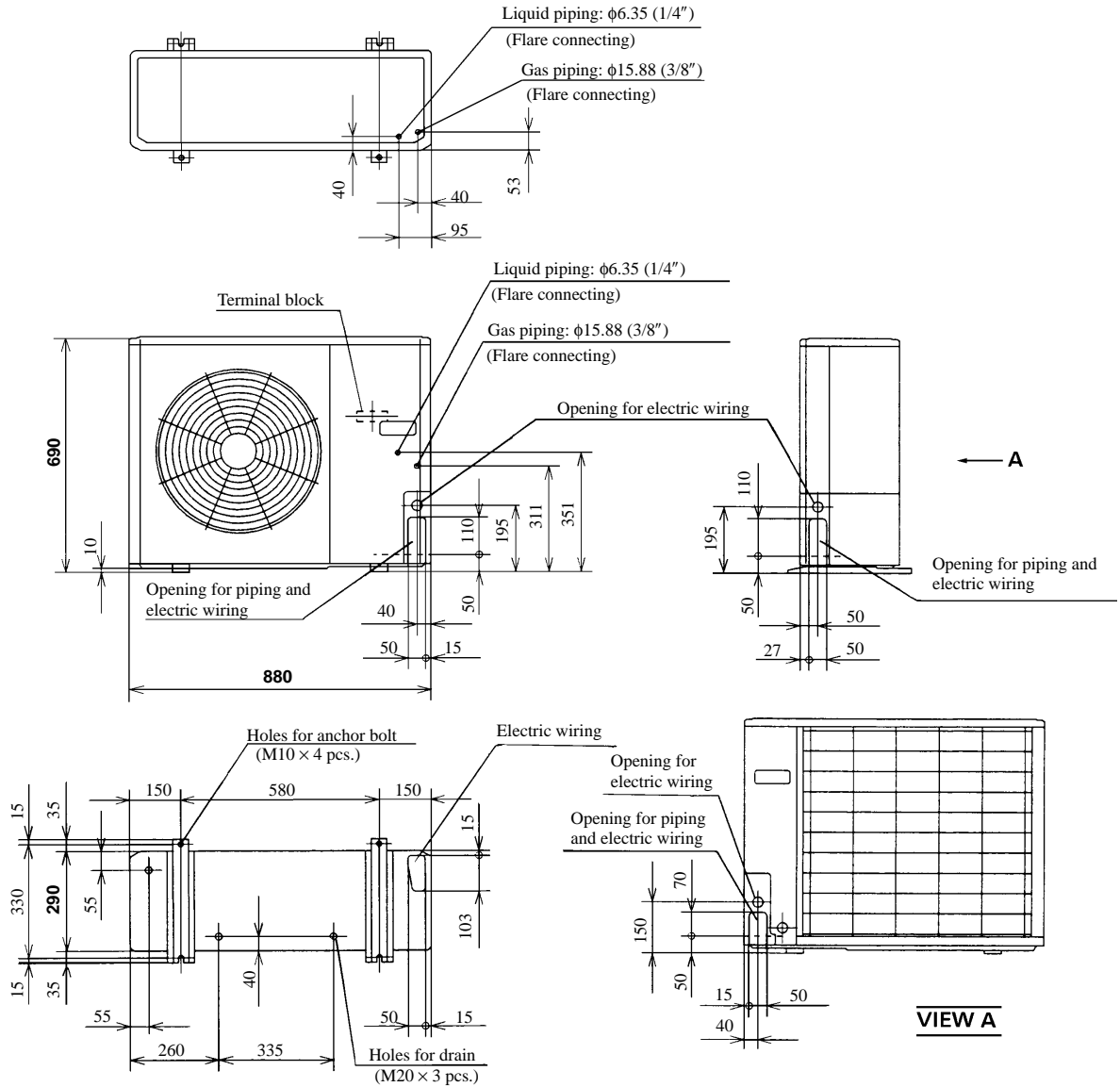
Note (1) Allowable length of remote controller cable: 600 m

### Allowable range of wire thickness and length

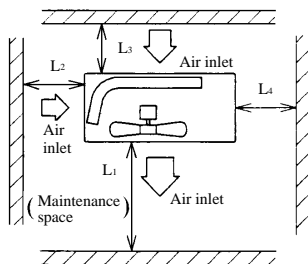
Standard	Within	0.3 mm <sup>2</sup>	×	Within	100 m
		0.5 mm <sup>2</sup>	×	Within	200 m
		0.75 mm <sup>2</sup>	×	Within	300 m
		1.25 mm <sup>2</sup>	×	Within	400 m
		2 mm <sup>2</sup>	×	Within	600 m

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

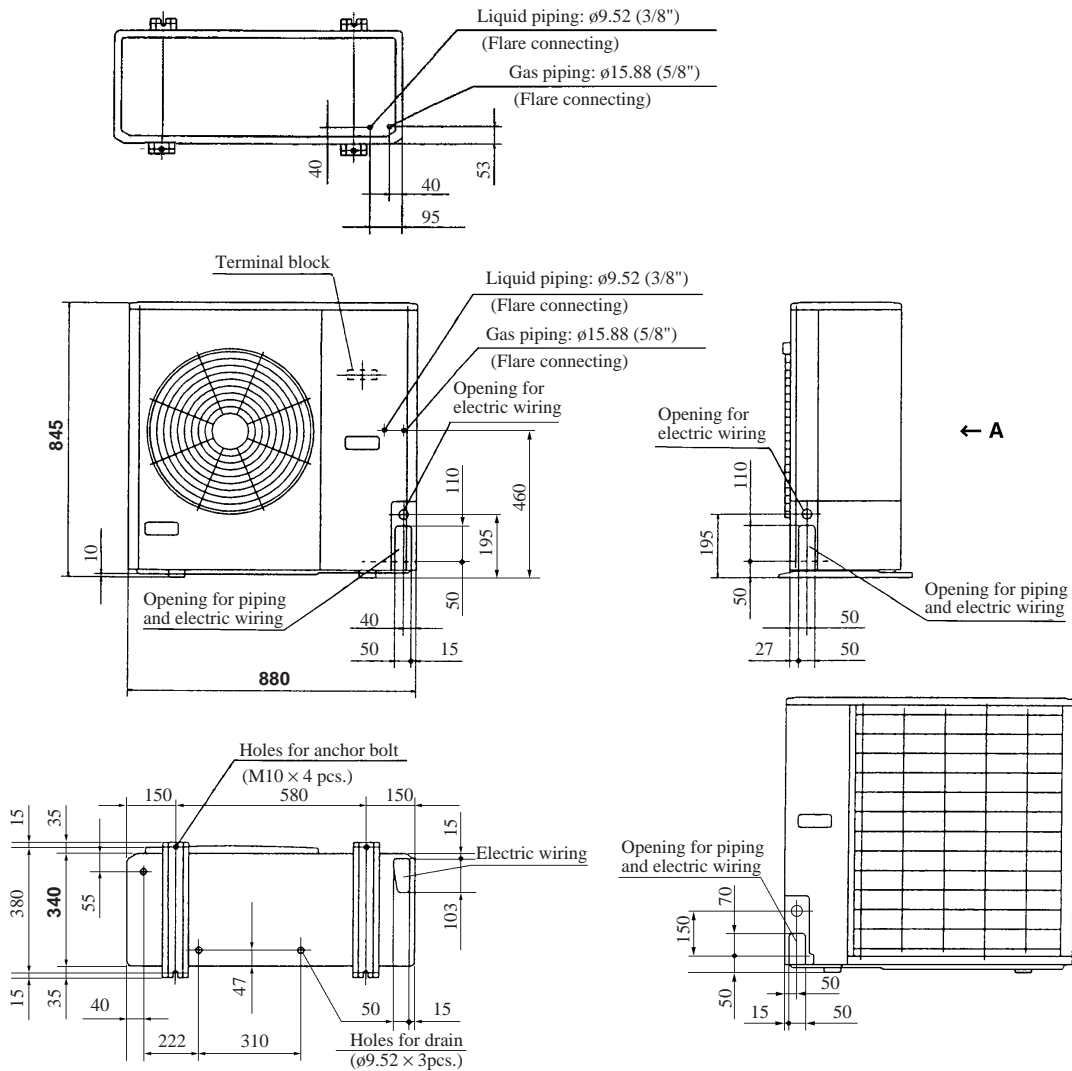
**Notes**

- (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.

# FDTN-C

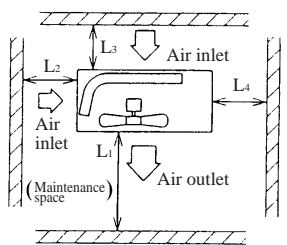
Models FDC258CEN3, 258CEP3

Unit: mm



**VIEW A**

### Required space for maintenance and air flow



### Minimum allowable space to the obstacles

Unit:mm

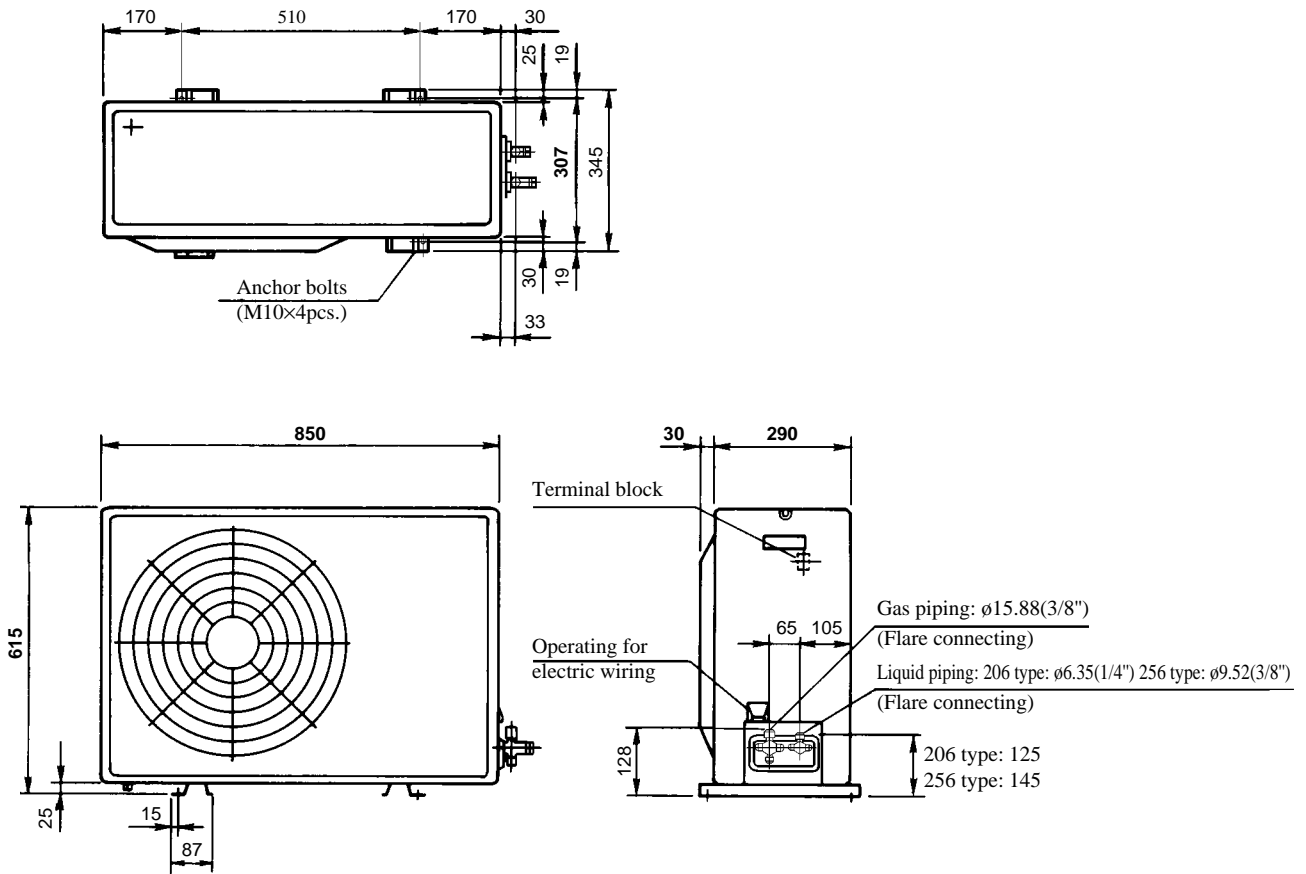
Mark	Installation type	Installation type		
		I	II	III
L1		Open	Open	500
L2		300	5	Open
L3		100	150	100
L4		5	5	5

### Notes

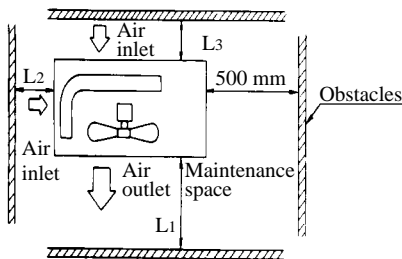
- (1) Avoid the location where four sides are entirely surrounded by walls.
- (2) Fix the unit by anchor bolts without fail. Restrict the protrusion length of anchor bolt to 15 mm and under.
- (3) When strong wind blows against the unit, direct the discharge port at a right angle to the wind direction.
- (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 FDC206CEN3, 206CEP3, 256CEN3, 256CEP3

Unit: mm



**Required space for maintenance and air flow**



**Minimum allowable space to the obstacles**

Unit:mm

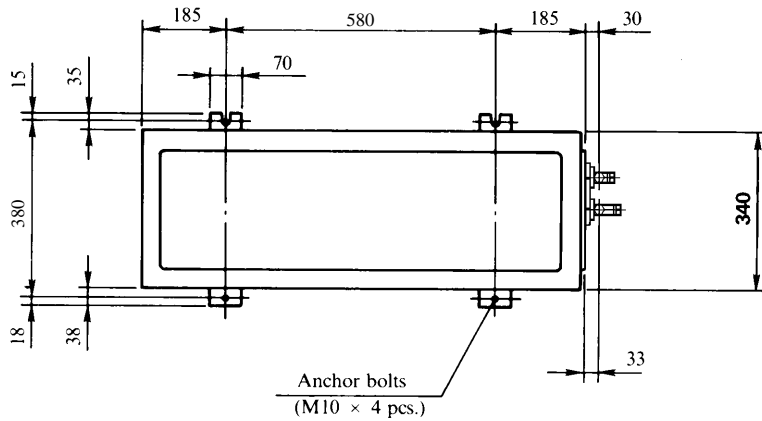
Mark	Installation type	
	I	II
L <sub>1</sub>	Open	100
L <sub>2</sub>	100	Open
L <sub>3</sub>	100	500

**Notes**

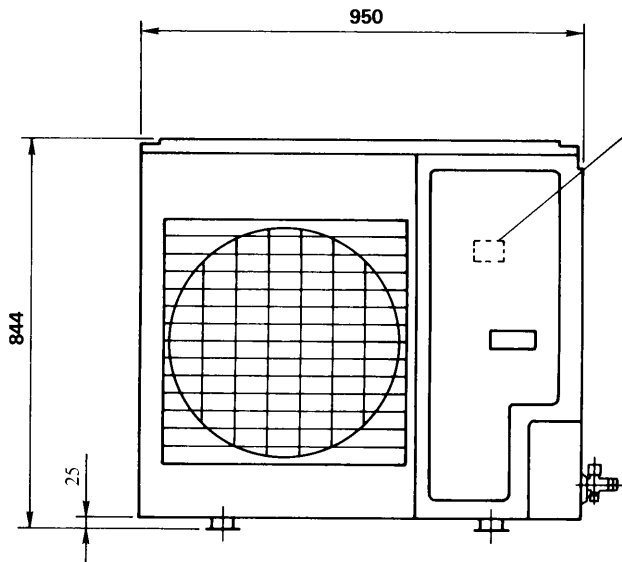
- (1) Fix the unit with anchor bolts.
- (2) Strong wind must not be directed to the air outlet.
- (3) Free space over the unit must be larger than 1 m.
- (4) The unit should not be surrounded by obstructions in all direction.  
At least one direction around the unit must be free.

# FDTN-C

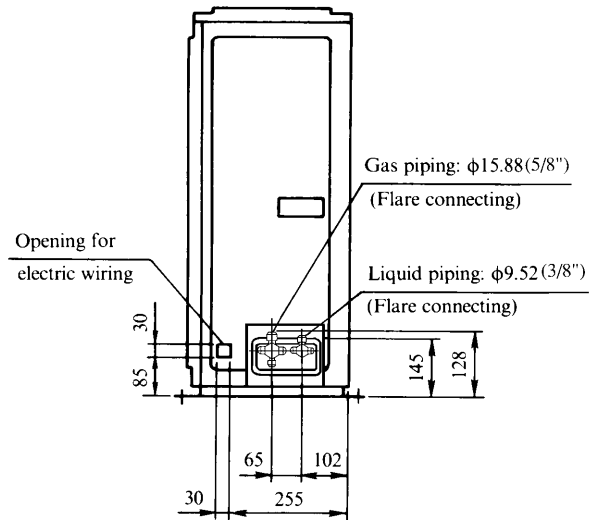
Models FDC306CEN3, 306CEP3, 306CES3



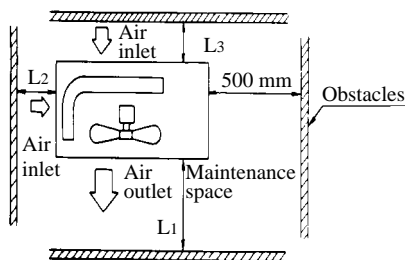
Unit: mm



Terminal block



### Required space for maintenance and air flow



### Minimum allowable space to the obstacles

Unit:mm

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

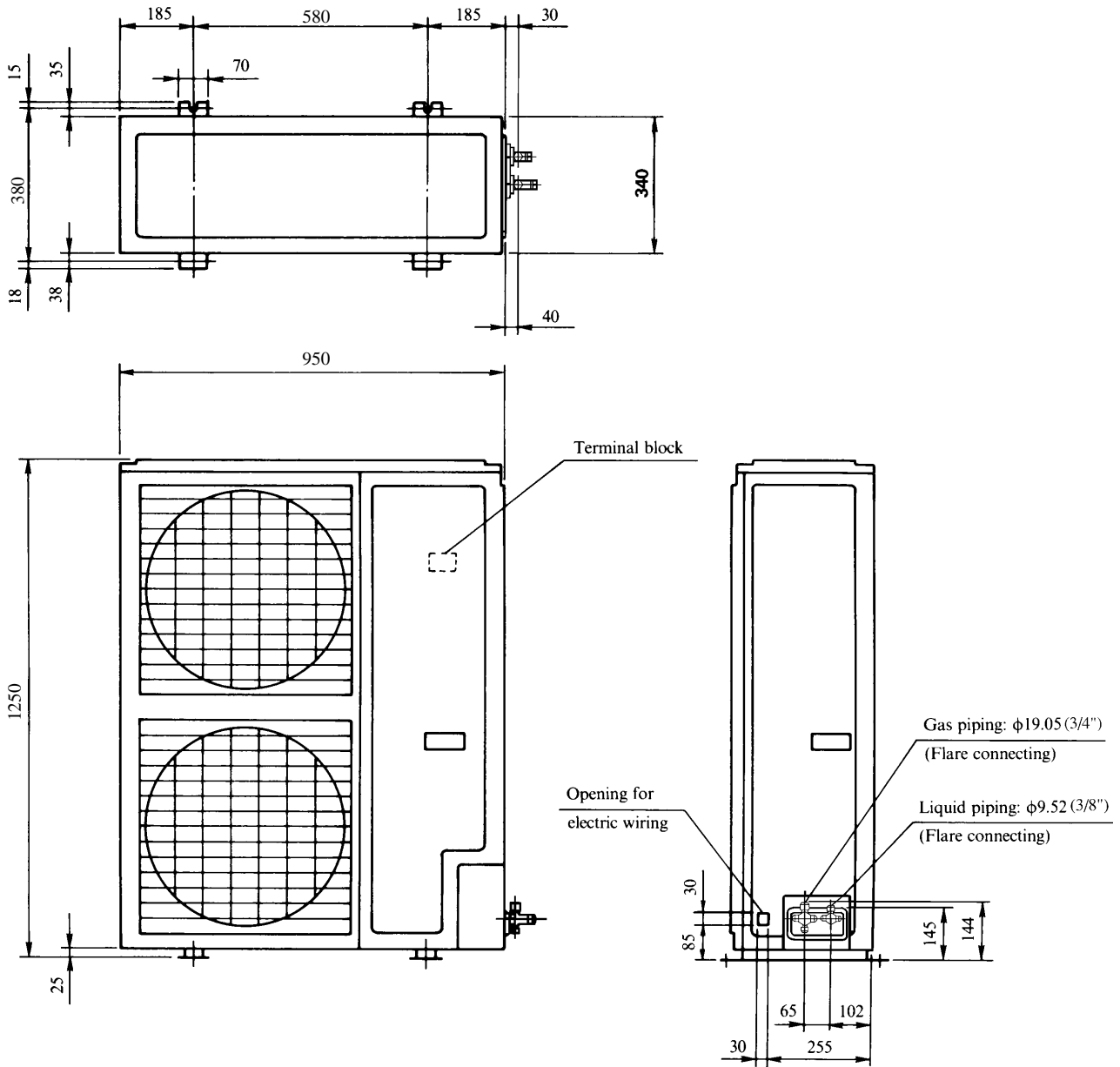
### Notes

- (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.

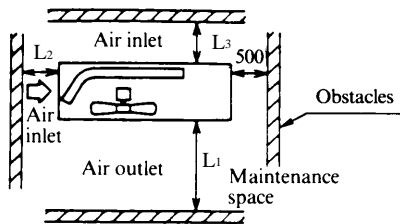


Models FDC406CES3, 506CES3, 506CEM3

Unit: mm



**Required space for maintenance and air flow**



**Minimum allowable space to the obstacles**

Unit:mm

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

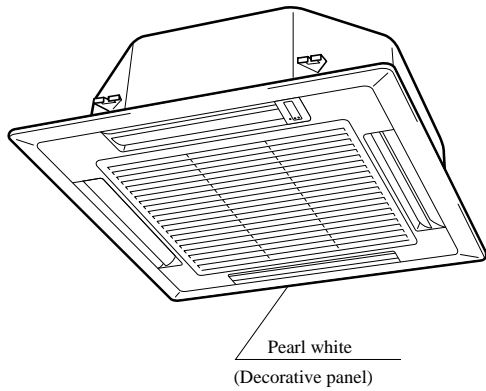
**Notes**

- (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.

## 7.2.4 Exterior appearance

### (1) Indoor unit

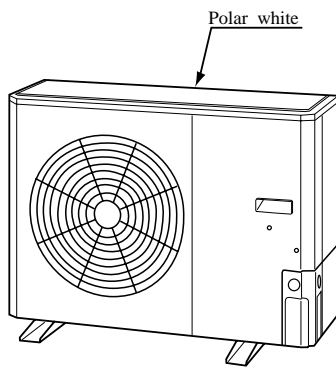
Models All models



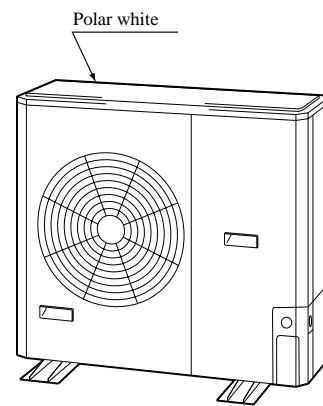
Type	Item	Panel model	Remarks
For wireless remote controller	FDTN208C	TN-PSC-22W-E	Without swing
	FDTN258C~508C	TN-PSC-32W-E	
For wired remote controller	FDT208	T-PSA-22W-E	
	FDT258~508	T-PSA-32W-E	

### (2) Outdoor unit

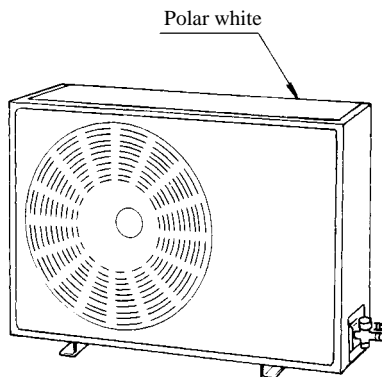
Models FDC208CEN3, 208CEP3



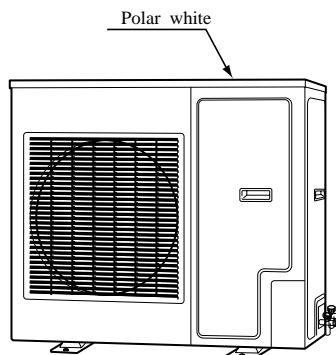
Models FDC258CEN3, 258CEP3



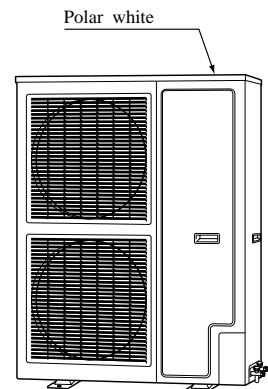
Models FDC206CEN3, 206CEP3  
256CEN3, 256CEP3



Models FDC306CEN3, 306CEP3  
306CES3

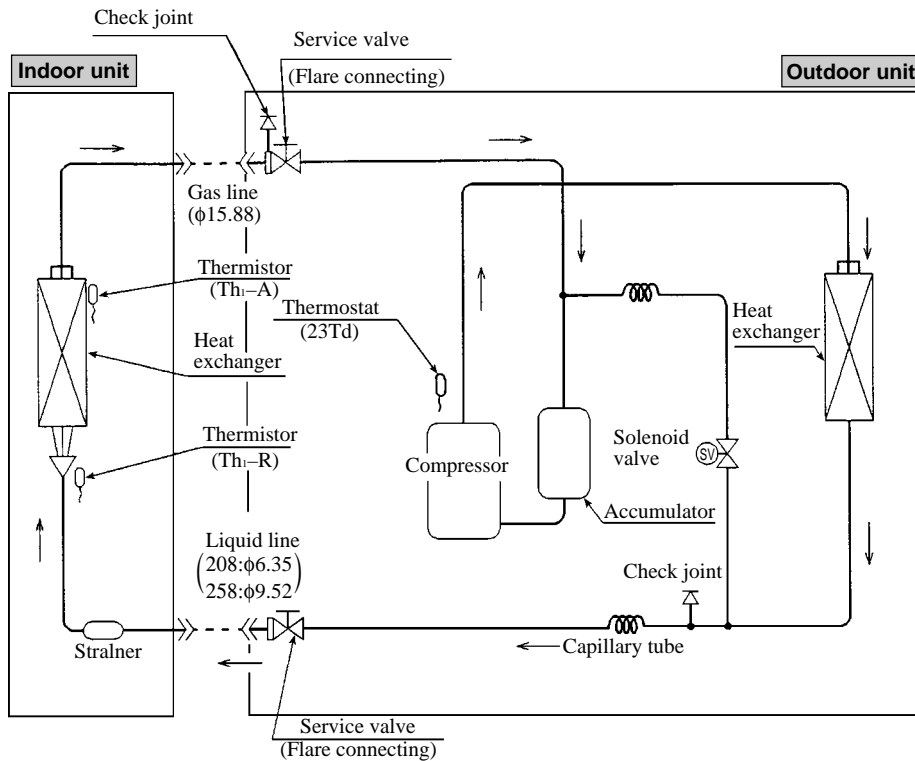


Models FDC406CES3, 506CES3  
506CEM3

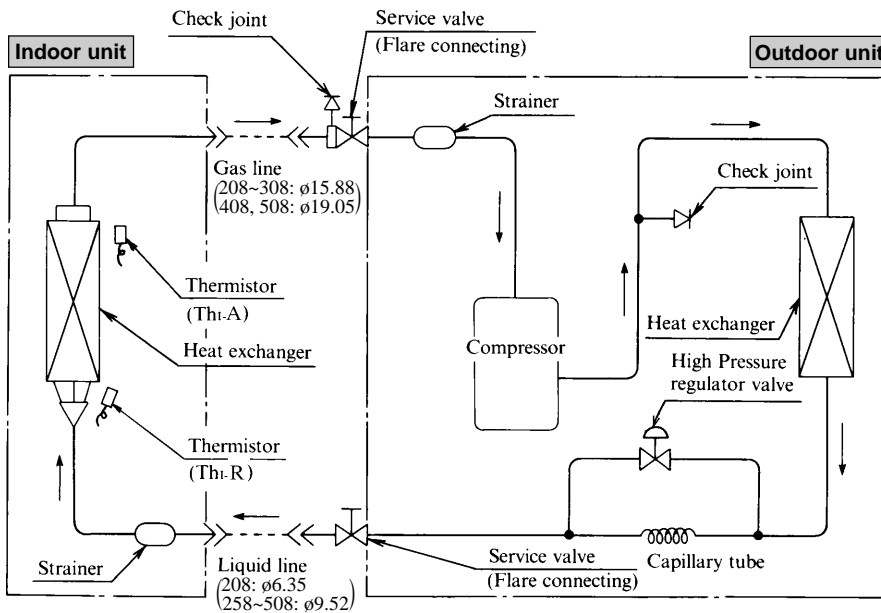


### 7.2.5 Piping system

Models **FDTN208CEN-S, 208CEP-S, 258CEN-S, 258CEP-S, FDT208CEN-S, 258CEN-S**



Models **FDTN208CEN, 208CEP, 258CEN, 258CEP, 308CEN, 308CEP, 308CES, 408CES, 508CES, 508CEM, FDT308CEN, 308CES, 408CES, 508CES**



#### Preset point of protective devices

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

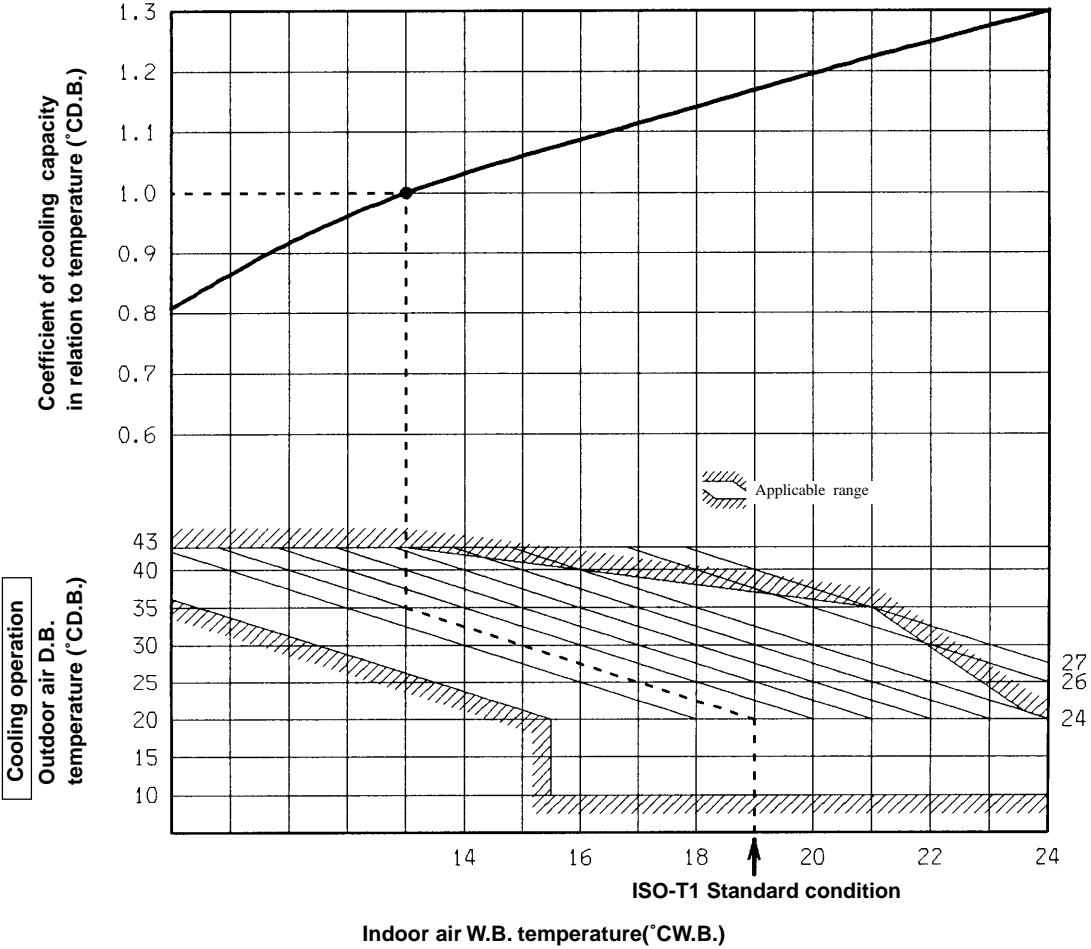
**7.2.6 Selection chart**

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**



(b) Only case of ISO-T3 and SASO models

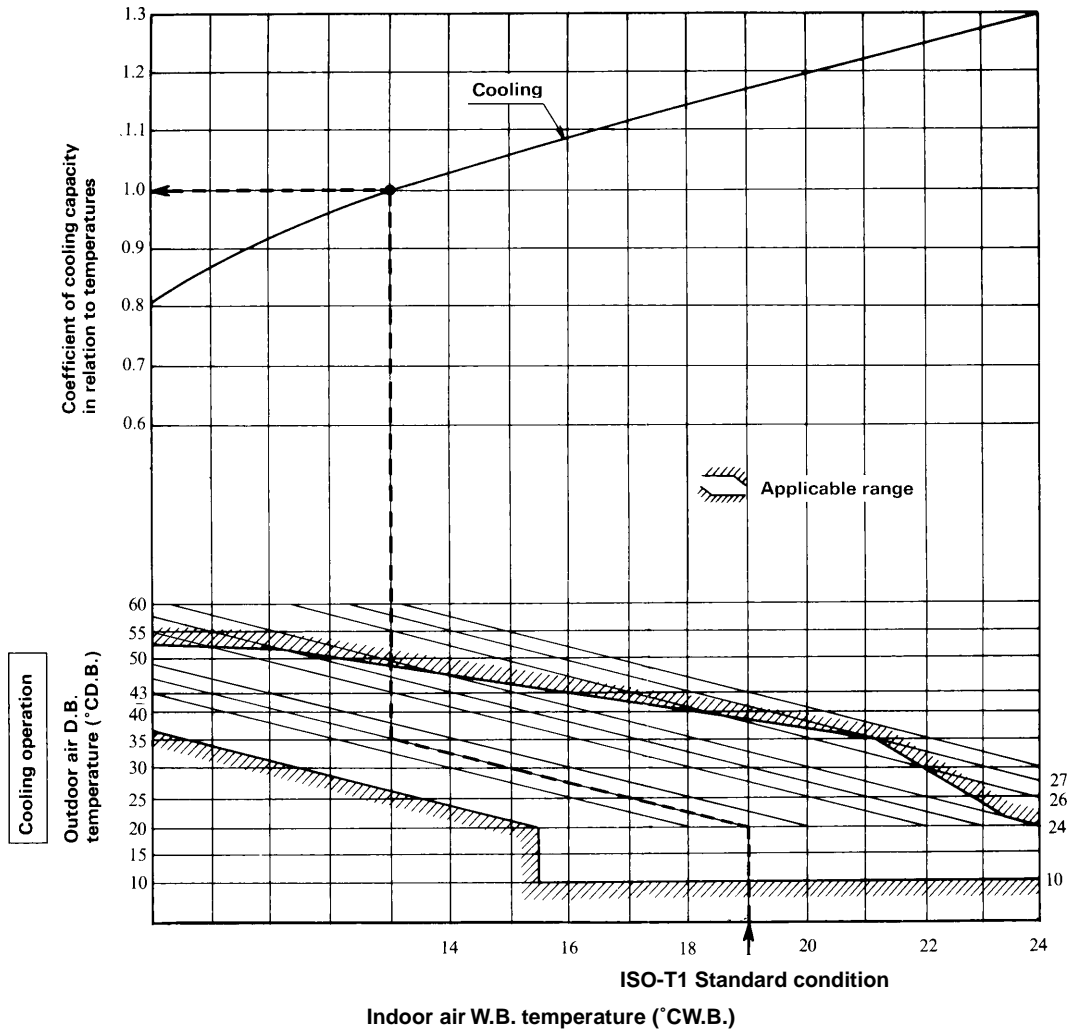


Table of bypass factor

Item	Model	208 type	258 type	308 type	408 type	508 type
	Air flow	Hi	0.112	0.050	0.065	0.076
Lo		0.073	0.030	0.030	0.050	0.013

(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>	208 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
	258 type	1.0	0.995	0.99	0.985	0.98	0.975	0.97
	308 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
	408 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
	508 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	FDT(N)208, 258(FDC208,258 type)	FDT(N)208~508(FDC206~506 type)
Max.one way piping length	30m	
Max.vertical height difference	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 FDTN308CEN 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

$$\text{Net cooling capacity} = \frac{7100}{\text{FDTN308CEN}} \times \frac{1.00}{\text{Air flow "High"}} \times \frac{(0.98 - 0.01)}{\text{Length 15m. Height difference 5 m}} \times \frac{1.0}{\text{Factor by air temperatures}} = \mathbf{6887 \text{ w}}$$

## 7.2.7 Noise level

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

Ambient air temperature:

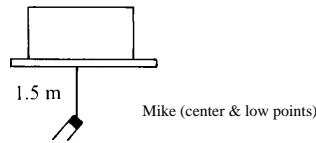
Indoor unit 27°C DB, 19°C WB.

Outdoor unit 35°C DB.

### Indoor unit

Measured based on JIS B 8616

Mike position as below



### 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

(2) The data in the chart are measured in an anechoic room.

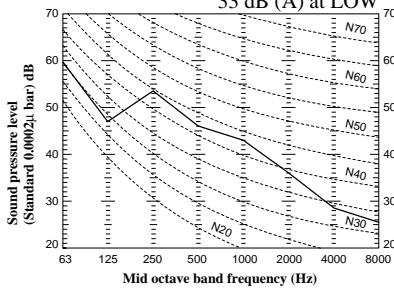
(3) The noise levels measured in the field are usually higher than the data because of reflection.

### (1) Indoor unit

Models **FDTN208C**  
**FDT208**

Noise level 38 dB (A) at HIGH

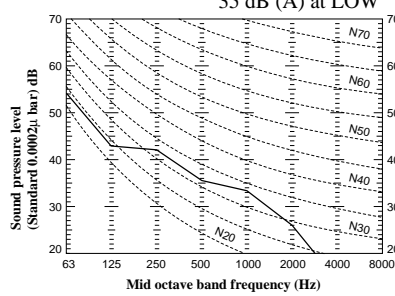
33 dB (A) at LOW



Models **FDTN258C**  
**FDT258**

Noise level 39 dB (A) at HIGH

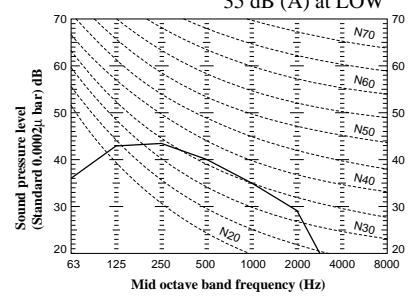
35 dB (A) at LOW



Models **FDTN308C**  
**FDT308**

Noise level 41 dB (A) at HIGH

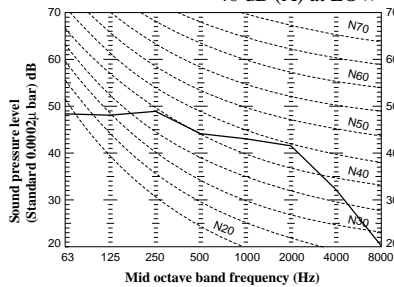
35 dB (A) at LOW



Models **FDTN408C**  
**FDT408**

Noise level 48 dB (A) at HIGH

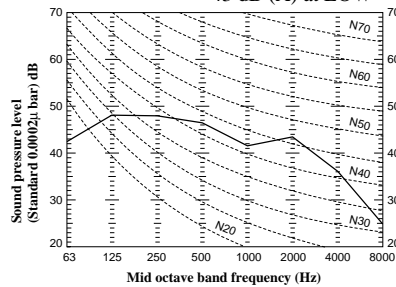
40 dB (A) at LOW



Models **FDTN508C**  
**FDT508**

Noise level 49 dB (A) at HIGH

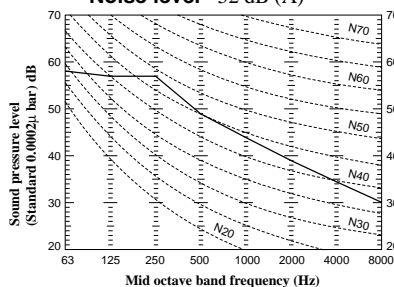
43 dB (A) at LOW



### (2) Outdoor unit

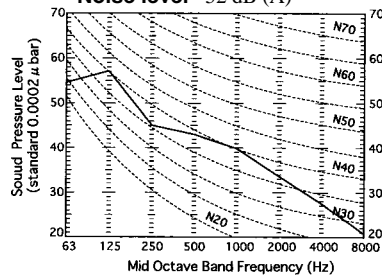
Model **FDC208CEN3**

Noise level 52 dB (A)



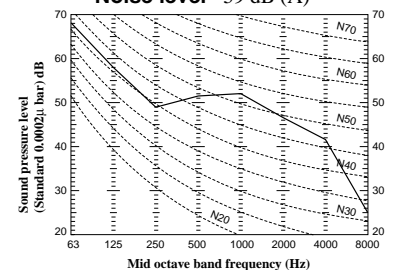
Model **FDC208CEP3**

Noise level 52 dB (A)

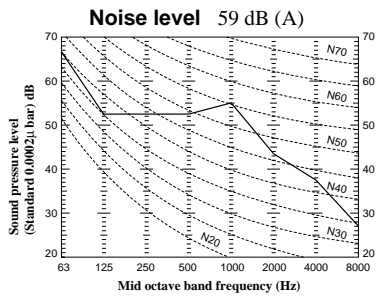


Model **FDC206CEN3**

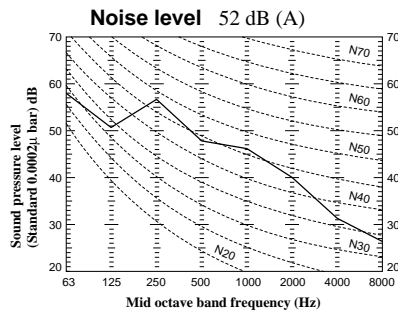
Noise level 59 dB (A)



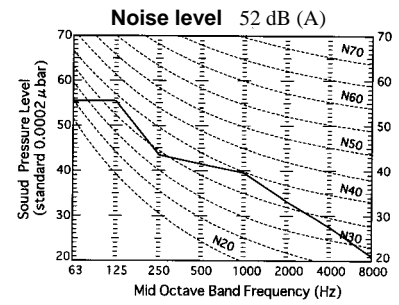
**Model FDC206CEP3**



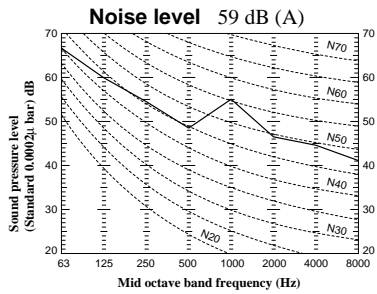
**Model FDC258CEN3**



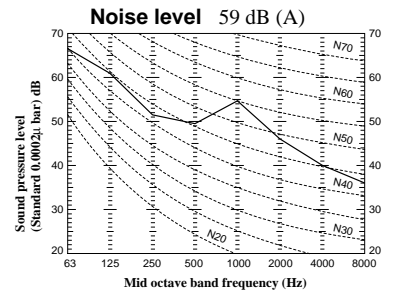
**Model FDC258CEP3**



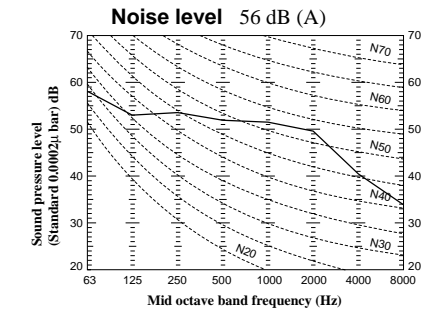
**Model FDC256CEN3**



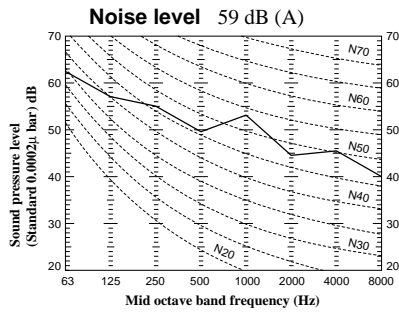
**Model FDC256CEP3**



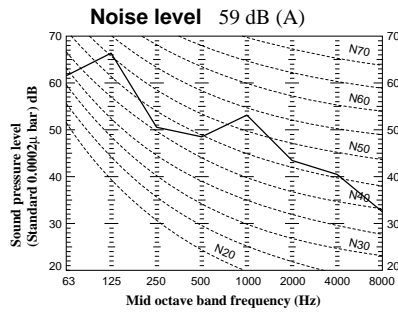
**Model FDC306CEN3**



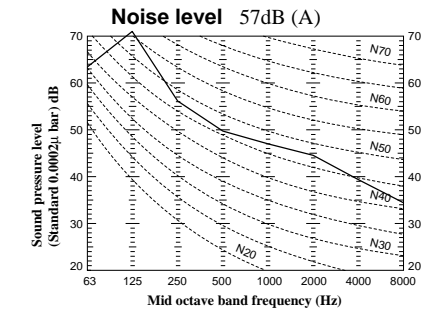
**Model FDC306CEP3**



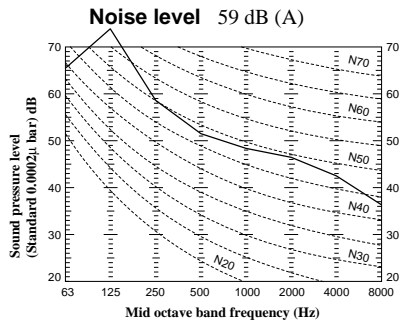
**Model FDC306CES3**



**Model FDC406CES3**



**Models FDC506CES3, 506CEM3**





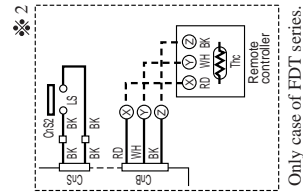
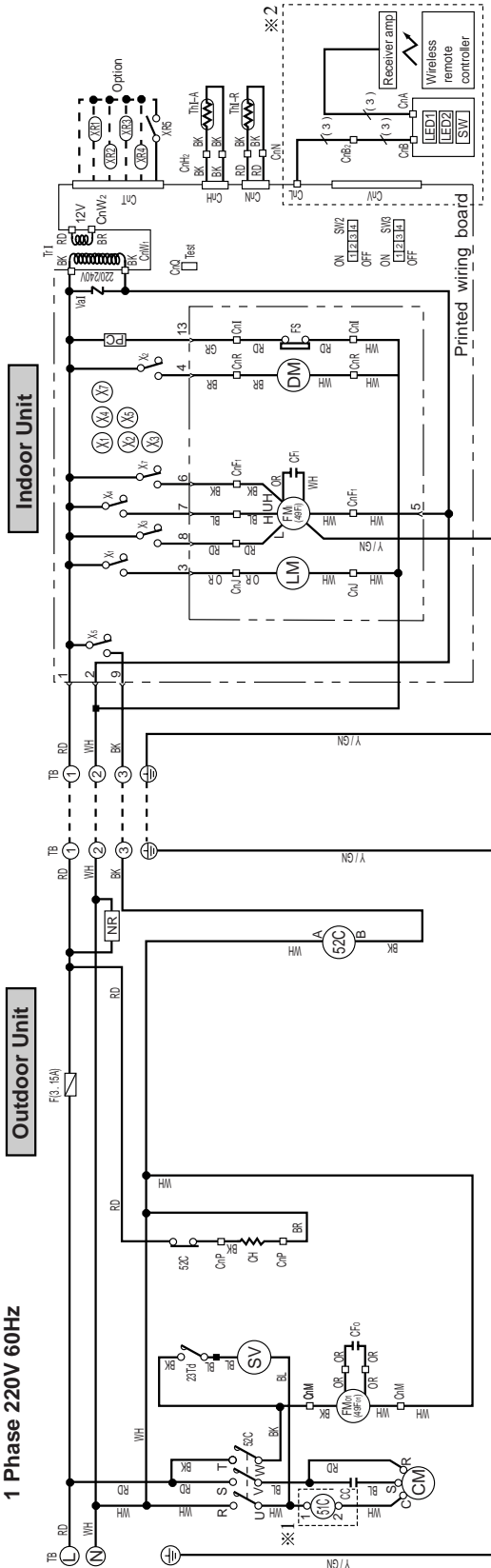
# 7.3 ELECTRICAL DATA

## 7.3.1 Electrical wiring

Models FDTN208CEN-S, 208CEP-S, 258CEN-S, 258CEP-S  
 FDT208CEN-S, 258CEN-S

**Power source**  
**FDTN208CEN-S, 258CEN-S**  
**FDT208CEN-S, 258CEN-S**  
 1 Phase 220/240V 50Hz  
**FDTN208CEP-S, 258CEP-S**  
 1 Phase 220V 60Hz

[ This diagram indicates the FDTN208 series. ※ 1 is for FDTN258 series.  
 ※ 2 is for FDT208 series. Sections from ※ 1 and ※ 2 change on the  
 FDT258 series.



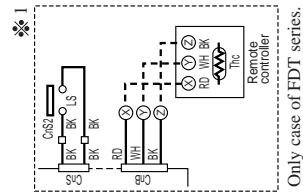
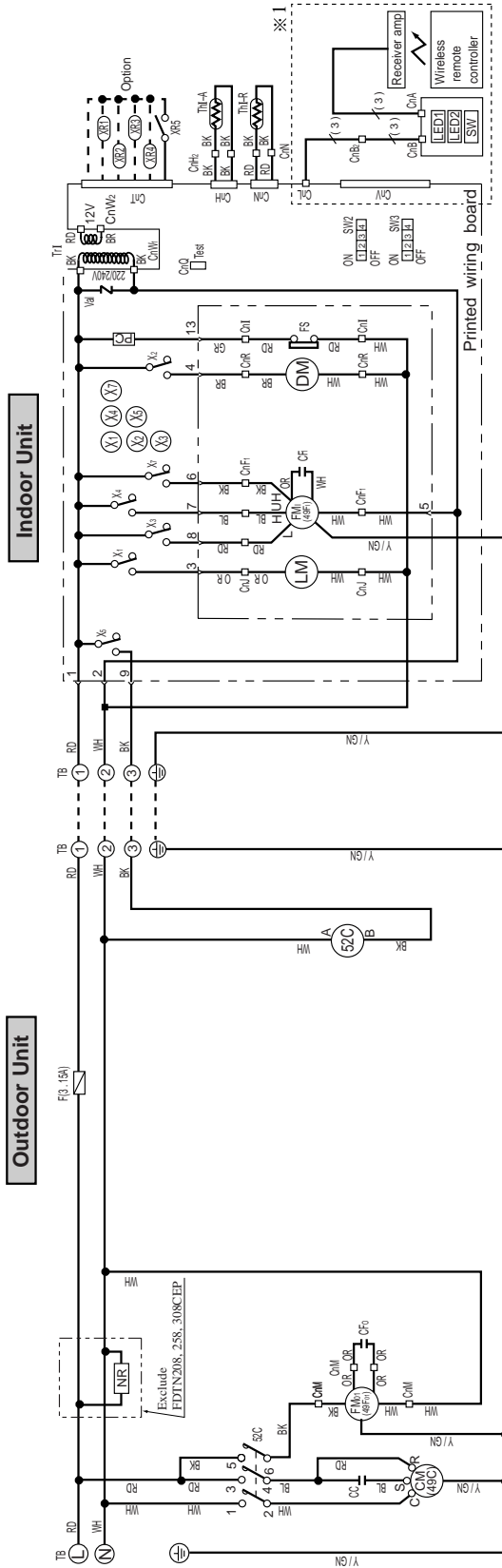
Only case of FDTN-FDT258 series.

Color mark		Meaning of marks	
Mark	Color	Mark	Parts name
BK	Black	CC	Capacitor for CM
BL	Blue	CFi	Capacitor for FMi
BR	Brown	CFo	Capacitor for FMo
GR	Gray	CH	Crankcase heater
OR	Orange	CM	Compressor motor
RD	Red	CnA ~ W	Connector
WH	White	DM	Drain motor
Y/GN	Yellow/Green	F	Fuse
		FMi	Fan motor (Indoor unit)
		FMo	Fan motor (Outdoor unit)
		FS	Float switch
		LED1	Indication lamp (Green - Run)
		LED2	Indication lamp (Yellow - Timer/Check)
		LM	Louver motor
		LS	Limit switch
		NR	Surge suppressor
		PC	Photo coupler
		SV	Solenoid coil (for control)
		SW2, 3	Back up switch (ON/OFF)
		TB	Changeover switch
		Thc	Terminal block (O mark)
		Thi-A	Thermistor
		Thi-R	Thermistor
		T1	Transformer
		Val	Varistor
		23Td	Thermostat
		49Fo	Internal thermostat for FMi
		49Fi	Internal thermostat for FMo
		51C	Overcurrent relay for CM
		52C	Magnetic contactor for CM
		X1~7	Auxiliary relay
		▲	Terminal (F)
		■	Connector

Models FDTN208CEN, 208CEP, 258CEN, 258CEP, 308CEN, 308CEP  
FDT308CEN

Power source  
FDTN208CEN, 258CEN, 308CEN  
FDT308CEN  
1 Phase 220/240V 50Hz  
FDTN208CEP, 258CEP, 308CEP  
1 Phase 220V 60Hz

[ This diagram indicates the FDTN series. Section from ※ 1 changes on the FDT series.



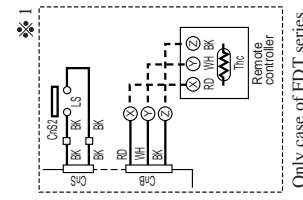
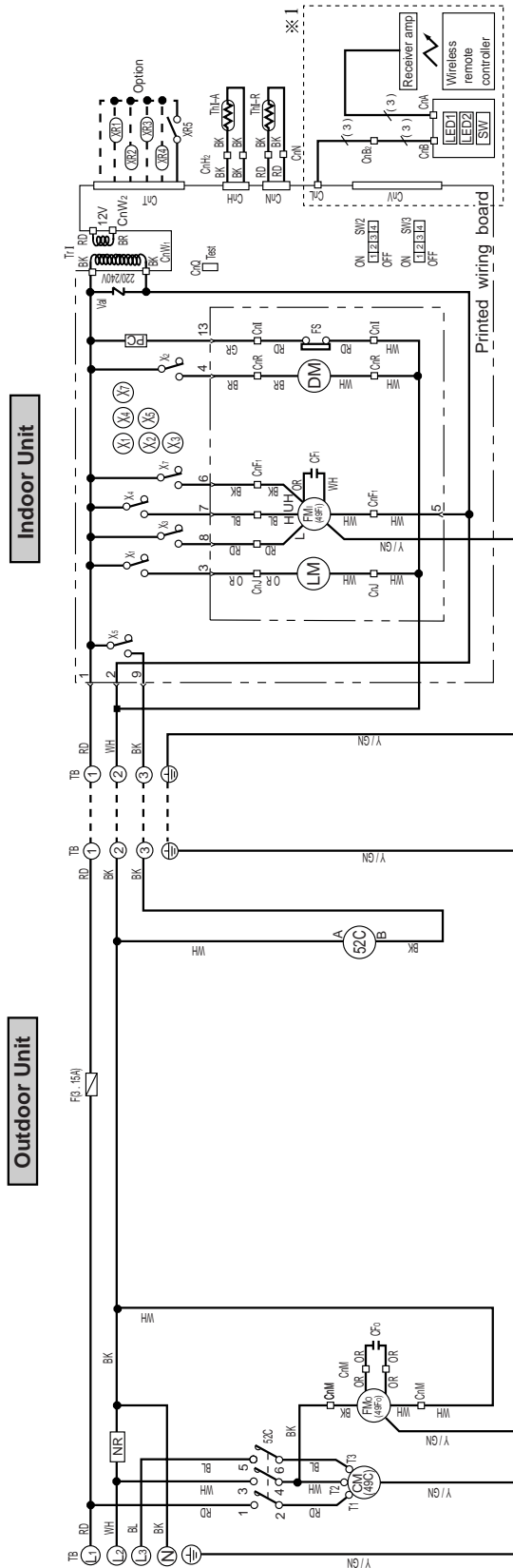
Color mark	Mark	Color
	BK	Black
	BL	Blue
	BR	Brown
	GR	Gray
	OR	Orange
	RD	Red
	WH	White
	Y/GN	Yellow/Green

Meaning of marks	Mark	Parts name	Mark	Parts name
	Cc	Capacitor for CM	SW	Back up switch (ON/OFF)
	CFi	Capacitor for FMI	SW2, 3	Changeover switch
	CFo	Capacitor for FMO	TB	Terminal block (O mark)
	CM	Compressor motor	Thc	Thermistor
	CnA ~ W	Connector	Thi-A	Thermistor
	DM	Drain motor	Thi-R	Thermistor
	F	Fuse	Tr	Transformer
	FMI	Fan motor (Indoor unit)	Val	Valistor
	FMO	Fan motor (Outdoor unit)	49C	Internal thermostat for CM
	FS	Float switch	49Fo	Internal thermostat for FMO
	LED1	Indication lamp (Green - Run)	49Fi	Internal thermostat for FMI
	LED2	Indication lamp (Yellow - Timer/Check)	52C	Magnetic contactor for CM
	LM	Louver motor	X1-7	Auxiliary relay
	LS	Limit switch	▽	Terminal (F)
	NR	Surge suppressor	■	Connector
	PC	Photo coupler		

Models **FDTN308CES**  
**FDT308CES**

[ This diagram indicates the FDTN series. Section from ※ 1 changes on the FDT series. ]

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



Only case of FDT series.

### Meaning of marks

Mark	Parts name	Mark	Parts name
CFi	Capacitor for FMi	PC	Photo coupler
CFO	Capacitor for FMO	TB	Terminal block (○ mark)
CM	Compressor motor	SW2, 3	Changeover switch
CnA ~ W	Connector	The	Thermistor
DM	Drain motor	Th-A	Thermistor
F	Fuse	Th-R	Thermistor
FMi	Fan motor (Indoor unit)	Tri	Transformer
FMO	Fan motor (Outdoor unit)	Val	Valvistor
FS	Float switch	49C	Internal thermostat for CM
LED1	Indication lamp (Green - Run)	49Fo	Internal thermostat for FMi
LED2	Indication lamp (Yellow - Timer/Check)	49Fi	Internal thermostat for FMi
LM	Louver motor	52C	Magnetic contactor for CM
LS	Limit switch	X1-7	Auxiliary relay
NR	Surge suppressor	◁	Terminal (F)
SW	Back up switch (ON/OFF)	■	Connector

### Color mark

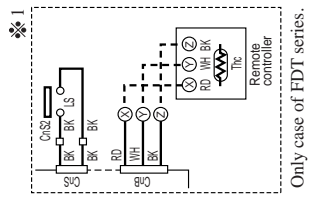
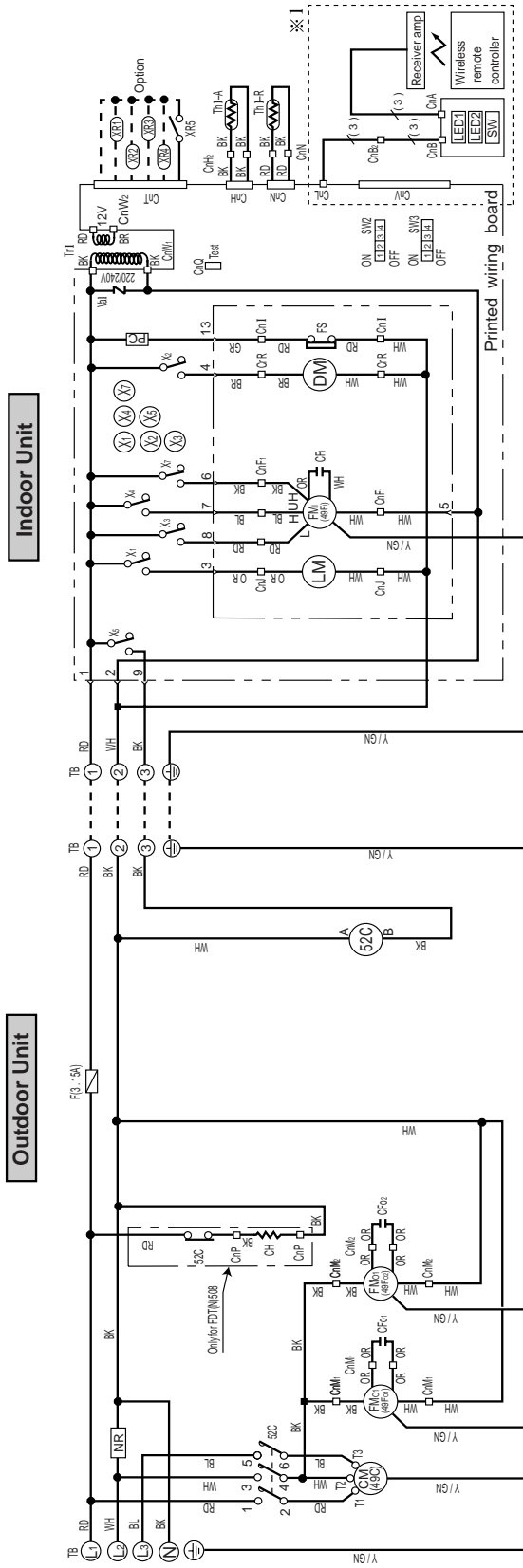
Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
RD	Red
WH	White
Y/GN	Yellow/Green

# FDTN-C

Models FDTN408CES, 508CES  
FDT408CES, 508CES

[ This diagram indicates the FDTN series. Section from ※ 1 changes on ]  
[ the FDT series.

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



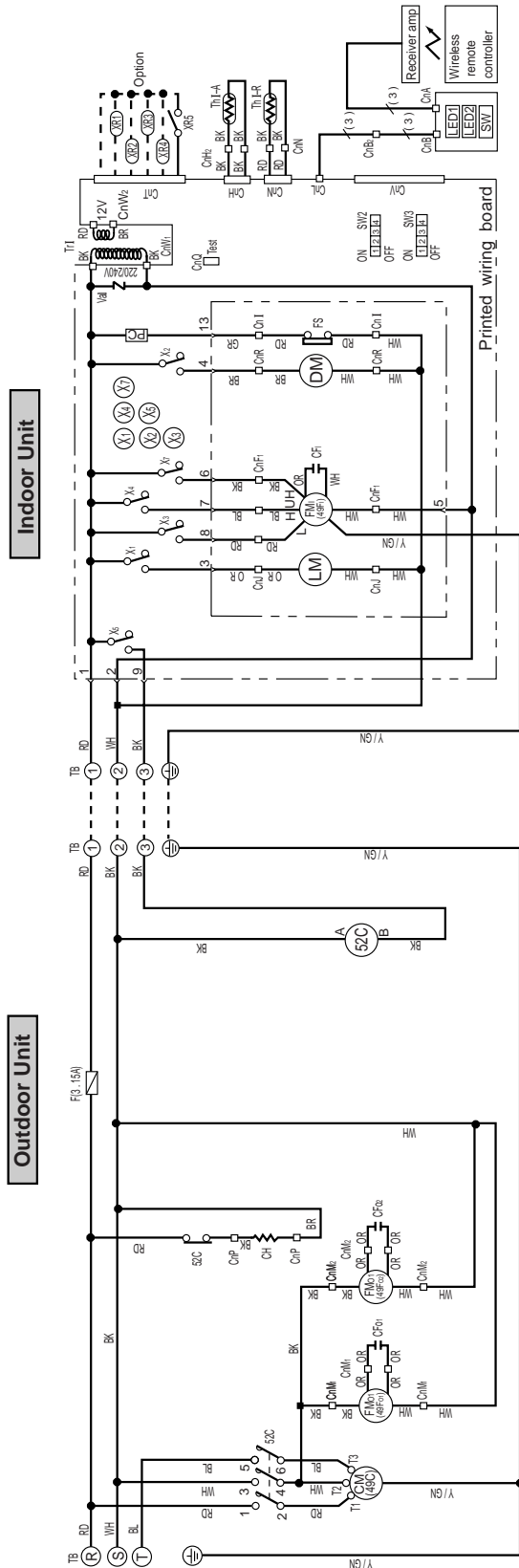
Color mark	Mark	Color
	BK	Black
	BL	Blue
	BR	Brown
	GR	Gray
	OR	Orange
	RD	Red
	WH	White
	Y/GN	Yellow/Green

Mark	Parts name	Mark	Parts name
CFI	Capacitor for FMI	PC	Photo coupler
CFo1,2	Capacitor for FMo	TB	Terminal block (○ mark)
CH	Crankcase heater	SW2, 3	Changeover switch
CM	Compressor motor	Thc	Thermistor
CnA ~ W	Connector	Thr-A	Thermistor
DM	Drain motor	Thr-R	Thermistor
F	Fuse	Trl	Transformer
FMI	Fan motor (Indoor unit)	Val	Valve
FMo1,2	Fan motor (Outdoor unit)	49C	Internal thermostat for CM
FS	Float switch	49Fo1,2	Internal thermostat for FMo
LED1	Indication lamp (Green - Run)	49F1	Internal thermostat for FMI
LED2	Indication lamp (Yellow - Timer/Check)	52C	Magnetic contactor for CM
LM	Louver motor	X1-7	Auxiliary relay
LS	Limit switch	▽	Terminal (F)
NR	Surge suppressor	■	Connector
SW	Back up switch (ON/OFF)		

## Meaning of marks

Model FDTN508CEM

Power source  
3 Phase 230V 50Hz/220V 60Hz



Meaning of marks

Mark	Parts name	Mark	Parts name
CF1	Capacitor for FM1	PC	Photo coupler
CF01,2	Capacitor for FM0	TB	Terminal block (O mark)
CH	Crankcase heater	SW2, 3	Changeover switch
CM	Compressor motor	Th-A	Thermistor
ChA ~ W	Connector	Th-R	Thermistor
DM	Drain motor	Tr1	Transformer
F	Fuse	Val	Valve
FM1	Fan motor (Indoor unit)	49F1	Internal thermostat for FM1
FM01,2	Fan motor (Outdoor unit)	49C	Internal thermostat for CM
FS	Float switch	49Fo1,2	Internal thermostat for FM0
LED1	Indication lamp (Green - Run)	52C	Magnetic contactor for CM
LED2	Indication lamp (Yellow - Timer/Check)	X1-7	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

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

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

## **7.5 APPLICATION DATA**

The application data for the cooling only models are similar to those for the heat pump models. (See page 256.)

## **7.6 MAINTENANCE DATA**

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