11. WALL MOUNTED TYPE PACKAGED AIR CONDITIONER

(Split system, Air cooled cooling only type)

FDKN208CEN-S, FDKN208CEP-S, FDKN208CEN
FDKN208CEP, FDKN258CEN-S, FDKN258CEP-S
FDKN258CEN, FDKN258CEP, FDKN308CEN
FDKN308CEP, FDKN308CES

CONTENTS

11.1 GENERAL INFORMATION

11.1.1 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 line 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 cab tyre 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 service valves protruding from the outdoor unit for faster flare connection work in the field.

(8) Aero trap louver

(a) Pleasantness will be enhanced with the employment of aero trap louver. It has an excellent wind orientation and a homogeneous air conditioning feeling is ensured at every corner in a room with the auto swing blasting which can be adjusted the maximum 70° downward.

(b) Louver angle can be adjusted to 4 fixed positions with the remote control. It can be adjusted at any optional angle during the manual operation. Sidewise blast is adjustable by 40° in each direction.

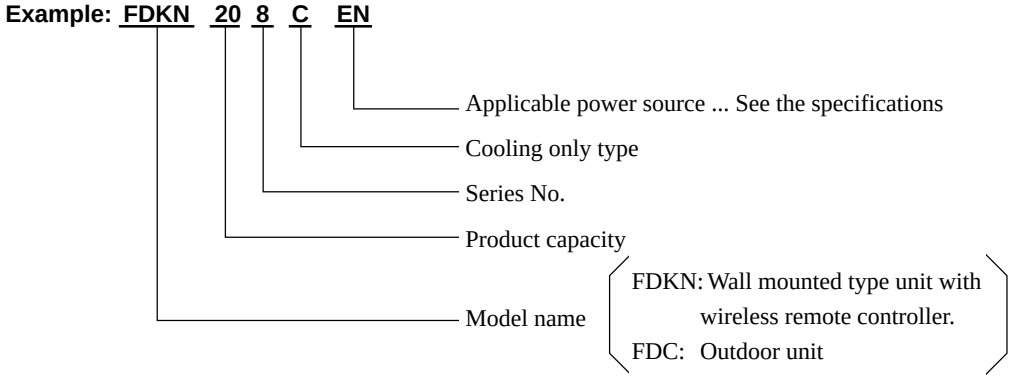
(9) Low noise

Specially developed silent fan is employed. A very gentle operation sound is assured because the noise like wind slashing sound are suppressed effectively.

(10) Thin and compact design

The unit measures 17.9 cm (208 type) or 19.6 cm (258, 308 type) in thickness and its size is so compact as a room air conditioner. Body of the unit is dinished in the ivory white color and a pleasant and simple design produces a very pleasant harmony for the interior design.

11.1.2 How to read the model name



11.2 SELECTION DATA

11.2.1 Specifications

Model FDKN208CEN-S

Item		Model	FDKN208CEN-S	
			FDKN208C	FDC208CEN3
Nominal cooling capacity(1)		W	**4850**	
Power source			**1 Phase, 220/240V, 50Hz**	
Operation data(3)	Cooling input	kW	1.76/1.85	
	Running current (Cooling)	A	8.2/8.0	
	Power factor (Cooling)	%	98/96	
	Inrush current (L.R.A)	A	44	
	Noise level(4)	dB(A)	Hi:45 Lo:38	52
Exterior dimensions Height × Width × Depth		**mm**	**275 × 790 × 179**	**690 × 880 × 290**
Net weight		**kg**	**10**	**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 fines & bare tubing
Refrigerant control			Capillary tube	Capillary tube
Refrigerant			**R22**	
Quantity		**kg**	**Holding charged**	**0.9 [Pre-charged up to the piping length of 5m]**
Refrigerant oil		ℓ	–	**0.7 (BARREL FREEZE 32 SAM)**
High pressure control			–	
Air handling equipment Fan type & Q'ty			Tangential fan × 1	Propeller fan × 1
	Motor	W	26 × 1	55 × 1
	Starting method		Line starting	Line starting
Air flow (Standard)		**CMM**	**Hi:16 Lo:10**	**56**
Fresh air intake			Unavailable	–
Air filter, Q'ty			Long life filter × 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 Refrigerant piping size		**mm (in)**	**Liquid line: ϕ6.35 (1/4″) Gas line: ϕ15.88 (5/8″)**	
Connecting method			**Flare piping**	
Drain hose			(Connectable with VP16)	–
Insulation for piping			Necessary (both Liquid & Gas lines)	
Accessories			Mounting kit. Wireless remote controller. Drain hose	
Optional parts			–	

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

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
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 FDKN208CEP-S

Item		Model	FDKN208CEP-S	
			FDKN208C	FDC208CEP3
Nominal cooling capacity(1)		W	**5200**	
Power source			**1 Phase, 220V, 60Hz**	
Operation data(3)	Cooling input	kW	1.76	
	Running current (Cooling)	A	8.3	
	Power factor (Cooling)	%	96	
	Inrush current (L.R.A)	A	52	
	Noise level(4)	dB(A)	Hi:45 Lo:38	52
Exterior dimensions Height × Width × Depth		**mm**	**275 × 790 × 179**	**690 × 880 × 290**
Net weight		**kg**	**10**	**49**
Refrigerant equipment Compressor type & Q'ty			–	**RM5520GP4 × 1**
	Motor	kW	–	**1.6**
	Starting method		–	Line starting
Heat exchanger			Louver fins & inner grooved tubing	Slitted fines & bare tubing
Refrigerant control			Capillary tube	Capillary tube
Refrigerant			**R22**	
Quantity		**kg**	**Holding charged**	**0.9 [Pre-charged up to the piping length of 5m]**
Refrigerant oil		ℓ	–	**0.7 (BARREL FREEZE 32 SAM)**
High pressure control			–	
Air handling equipment Fan type & Q'ty			Tangential fan × 1	Propeller fan × 1
	Motor	W	26 × 1	55 × 1
	Starting method		Line starting	Line starting
Air flow (Standard)		**CMM**	**Hi:16 Lo:10**	**56**
Fresh air intake			Unavailable	–
Air filter, Q'ty			Long life filter × 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 Refrigerant piping size		**mm (in)**	**Liquid line: ϕ6.35 (1/4″) Gas line: ϕ15.88 (5/8″)**	
Connecting method			**Flare piping**	
Drain hose			(Connectable with VP16)	–
Insulation for piping			Necessary (both Liquid & Gas lines)	
Accessories			Mounting kit. Wireless remote controller. Drain hose	
Optional parts			–	

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

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
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 FDKN258CEN-S

Item		Model	FDKN258CEN-S	
			FDKN258C	FDC258CEN3
Nominal cooling capacity(1)		W	**5700**	
Power source			**1 Phase, 220/240V, 50Hz**	
Operation data(3)	Cooling input	kW	2.03/2.14	
	Running current (Cooling)	A	9.3/9.3	
	Power factor (Cooling)	%	99/96	
	Inrush current (L.R.A)	A	51	
	Noise level(4)	dB(A)	Hi:45 Lo:38	52
Exterior dimensions Height × Width × Depth		**mm**	**298 × 940 × 196**	**845 × 880 × 340**
Net weight		**kg**	**11**	**55**
Refrigerant equipment Compressor type & Q'ty			–	**RM5526GNE4 × 1**
	Motor	kW	–	**1.9**
	Starting method		–	Line starting
Heat exchanger			Louver fins & inner grooved tubing	Slitted fines & bare tubing
Refrigerant control			Capillary tube	Capillary tube
Refrigerant			**R22**	
Quantity		**kg**	**Holding charged**	**1.05 [Pre-charged up to the piping length of 5m]**
Refrigerant oil		ℓ	–	**0.7 (BARREL FREEZE 32 SAM)**
High pressure control			–	
Air handling equipment Fan type & Q'ty			Tangential fan × 1	Propeller fan × 1
	Motor	W	40 × 1	55 × 1
	Starting method		Line starting	Line starting
Air flow (Standard)		**CMM**	**Hi:17 Lo:10**	**56**
Fresh air intake			Unavailable	–
Air filter, Q'ty			Long life filter × 2 (washable)	–
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber mount (for compressor)
Electric heater		W	–	20 (Cank case heater)
Operation control Operation switch			Wireless remote control switch	– (Indoor unit side)
Room temperature control			Thermostat by electronics	–
Safety equipment(4)			Internal thermostat for fan motor. Frost protection thermostat.	Internal thermostat for fan motor. Thermostat for discharge temperature.
Installation data Refrigerant piping size		**mm (in)**	**Liquid line: ϕ9.52 (3/8″) Gas line: ϕ15.88 (5/8″)**	
Connecting method			**Flare piping**	
Drain hose			(Connectable with VP16)	–
Insulation for piping			Necessary (both Liquid & Gas lines)	
Accessories			Mounting kit. Wireless remote controller. Drain hose	
Optional parts			–	

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

Item / Operation	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 FDKN258CEP-S

Item		Model	FDKN258CEP-S	
			FDKN258C	FDC258CEP3
Nominal cooling capacity(1)		W	**6200**	
Power source			**1 Phase, 220V, 60Hz**	
Operation data(3)	Cooling input	kW	2.75	
	Running current (Cooling)	A	12.7	
	Power factor (Cooling)	%	98	
	Inrush current (L.R.A)	A	71	
	Noise level(4)	dB(A)	Hi:45 Lo:38	52
Exterior dimensions Height × Width × Depth		**mm**	**298 × 940 × 196**	**845 × 880 × 340**
Net weight		**kg**	**11**	**55**
Refrigerant equipment Compressor type & Q'ty			–	**RM5526GP4 × 1**
	Motor	kW	–	**1.9**
	Starting method		–	Line starting
Heat exchanger			Louver fins & inner grooved tubing	Slitted fines & bare tubing
Refrigerant control			Capillary tube	Capillary tube
Refrigerant			**R22**	
Quantity		**kg**	**Holding charged**	**1.13 [Pre-charged up to the piping length of 5m]**
Refrigerant oil		ℓ	–	**0.7 (BARREL FREEZE 32 SAM)**
High pressure control			–	
Air handling equipment Fan type & Q'ty			Tangential fan × 1	Propeller fan × 1
	Motor	W	40 × 1	55 × 1
	Starting method		Line starting	Line starting
Air flow (Standard)		**CMM**	**Hi:17 Lo:10**	**56**
Fresh air intake			Unavailable	–
Air filter, Q'ty			Long life filter × 2 (washable)	–
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber mount (for compressor)
Electric heater		W	–	20 (Cank 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 Refrigerant piping size		**mm (in)**	**Liquid line: ϕ9.52 (3/8″) Gas line: ϕ15.88 (5/8″)**	
Connecting method			**Flare piping**	
Drain hose			(Connectable with VP16)	–
Insulation for piping			Necessary (both Liquid & Gas lines)	
Accessories			Mounting kit. Wireless remote controller. Drain hose	
Optional parts			–	

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

Item / Operation	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 FDKN208CEN

Item				Model	FDKN208CEN	
					FDKN208C	FDC206CEN3
Nominal cooling capacity(1)			ISO-T1	W	**5000**	
			ISO-T3		**4100**	
Power source					**1 Phase, 220/240V, 50Hz**	
Operation data(3)	ISO-T1	Cooling input		kW	2.07/2.10	
		Running current (Cooling)		A	9.9/9.7	
		Power factor (Cooling)		%	95/90	
	ISO-T3	Cooling input		kW	2.33/2.35	
		Running current (Cooling)		A	11.0/10.8	
		Power factor (Cooling)		%	96/91	
	Inrush current (L.R.A)			A	47	
	Noise level(4)			dB(A)	Hi:45 Lo:38	59
Exterior dimensions Height × Width × Depth				**mm**	**275 × 790 × 179**	**615 × 850 × 290 + 30**
Net weight				**kg**	**10**	**55**
Refrigerant equipment Compressor type & Q'ty					–	**RC5520ENE1 × 1**
Motor				kW	–	**1.49**
Starting method					–	Line starting
Heat exchanger					Louver fins & inner grooved tubing	Slitted fines & bare tubing
Refrigerant control					Capillary tube	Capillary tube
Refrigerant					**R22**	
Quantity				**kg**	**Holding charged**	**0.9 [Pre-charged up to the piping length of 10m]**
Refrigerant oil				ℓ	–	**1.63 (SUNISO 3GS)**
High pressure control					High pressure regulator valve	
Air handling equipment Fan type & Q'ty					Tangential fan × 1	Propeller fan × 1
Motor				W	26 × 1	55 × 1
Starting method					Line starting	Line starting
Air flow (Standard)				**CMM**	**Hi:16 Lo:10**	**42**
Fresh air intake					Unavailable	–
Air filter, Q'ty					Long life filter × 2 (washable)	–
Shock & vibration absorber					Rubber sleeve (for fan motor)	Rubber mount (for compressor)
Electric heater				W	–	–
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 Refrigerant piping size				**mm (in)**	**Liquid line: ϕ6.35 (1/4″) Gas line: ϕ15.88 (5/8″)**	
Connecting method					**Flare piping**	
Drain hose					(Connectable with VP16)	–
Insulation for piping					Necessary (both Liquid & Gas lines)	
Accessories					Mounting kit. Wireless remote controller. Drain hose	
Optional parts					–	

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

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
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 FDKN208CEP

Item				Model	FDKN208CEP	
					FDKN208C	FDC206CEP3
Nominal cooling capacity(1)			ISO-T1	W	**5200**	
			ISO-T3		**4500**	
Power source					**1 Phase, 220V, 60Hz**	
Operation data(3)	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(4)			dB(A)	Hi:45 Lo:38	59
Exterior dimensions Height × Width × Depth				**mm**	**275× 790 × 179**	**615 × 850 × 290 + 30**
Net weight				**kg**	**10**	**55**
Refrigerant equipment Compressor type & Q'ty					–	**RC5520EPE1 × 1**
Motor				kW	–	**1.31**
Starting method					–	Line starting
Heat exchanger					Louver fins & inner grooved tubing	Slitted fines & bare tubing
Refrigerant control					Capillary tube	Capillary tube
Refrigerant					**R22**	
Quantity				**kg**	**Holding charged**	**1.15 [Pre-charged up to the piping length of 10m]**
Refrigerant oil				ℓ	–	**1.63 (SUNISO 3GS)**
High pressure control					High pressure regulator valve	
Air handling equipment Fan type & Q'ty					Tangential fan × 1	Propeller fan × 1
Motor				W	26× 1	55 × 1
Starting method					Line starting	Line starting
Air flow (Standard)				**CMM**	**Hi:16 Lo:10**	**44**
Fresh air intake					Unavailable	–
Air filter, Q'ty					Long life filter × 2 (washable)	–
Shock & vibration absorber					Rubber sleeve (for fan motor)	Rubber mount (for compressor)
Electric heater				W	–	–
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 Refrigerant piping size				**mm (in)**	**Liquid line: ϕ6.35 (1/4″) Gas line: ϕ15.88 (5/8″)**	
Connecting method					**Flare piping**	
Drain hose					(Connectable with VP16)	–
Insulation for piping					Necessary (both Liquid & Gas lines)	
Accessories					Mounting kit. Wireless remote controller. Drain hose	
Optional parts					–	

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

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
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 FDKN258CEN

Item				Model	FDKN258CEN	
					FDKN258C	FDC256CEN3
Nominal cooling capacity(1)			ISO-T1	W	**5700**	
			ISO-T3		**4900**	
Power source					**1 Phase, 220/240V, 50Hz**	
Operation data(3)	ISO-T1	Cooling input		kW	2.57/2.61	
		Running current (Cooling)		A	12.5/13.1	
		Power factor (Cooling)		%	93/83	
	ISO-T3	Cooling input		kW	2.75/2.79	
		Running current (Cooling)		A	13.3/13.9	
		Power factor (Cooling)		%	94/84	
	Inrush current (L.R.A)			A	64	
	Noise level(4)			dB(A)	Hi:45 Lo:38	59
Exterior dimensions Height × Width × Depth				**mm**	**298 × 940 × 196**	**615 × 850 × 290 + 30**
Net weight				**kg**	**11**	**56**
Refrigerant equipment Compressor type & Q'ty					–	**RC5527ENE1 × 1**
Motor				kW	–	**1.87**
Starting method					–	Line starting
Heat exchanger					Louver fins & inner grooved tubing	Slitted fines & bare tubing
Refrigerant control					Capillary tube	Capillary tube
Refrigerant					**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	
Air handling equipment Fan type & Q'ty					Tangential fan × 1	Propeller fan × 1
Motor				W	40× 1	55 × 1
Starting method					Line starting	Line starting
Air flow (Standard)				**CMM**	**Hi:17 Lo:10**	**42**
Fresh air intake					Unavailable	–
Air filter, Q'ty					Long life filter × 2 (washable)	–
Shock & vibration absorber					Rubber sleeve (for fan motor)	Rubber mount (for compressor)
Electric heater				W	–	–
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 Refrigerant piping size				**mm (in)**	**Liquid line: ϕ9.52 (3/8″) Gas line: ϕ15.88 (5/8″)**	
Connecting method					**Flare piping**	
Drain hose					(Connectable with VP16)	–
Insulation for piping					Necessary (both Liquid & Gas lines)	
Accessories					Mounting kit. Wireless remote controller. Drain hose	
Optional parts					–	

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

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
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 FDKN258CEP

Item				Model	FDKN258CEP	
					FDKN258C	FDC256CEP3
Nominal cooling capacity(1)			ISO-T1	W	**6200**	
			ISO-T3		**5200**	
Power source					**1 Phase, 220V, 60Hz**	
Operation data(3)	ISO-T1	Cooling input		kW	2.66	
		Running current (Cooling)		A	12.3	
		Power factor (Cooling)		%	98	
	ISO-T3	Cooling input		kW	3.04	
		Running current (Cooling)		A	14.3	
		Power factor (Cooling)		%	97	
	Inrush current (L.R.A)			A	66	
	Noise level(4)			dB(A)	Hi:45 Lo:38	59
Exterior dimensions Height × Width × Depth				**mm**	**298 × 940 × 196**	**615 × 850 × 290 + 30**
Net weight				**kg**	**11**	**56**
Refrigerant equipment Compressor type & Q'ty					–	**RC5528EPE1 × 1**
Motor				kW	–	**1.68**
Starting method					–	Line starting
Heat exchanger					Louver fins & inner grooved tubing	Slitted fines & bare tubing
Refrigerant control					Capillary tube	Capillary tube
Refrigerant					**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	
Air handling equipment Fan type & Q'ty					Tangential fan × 1	Propeller fan × 1
Motor				W	40 × 1	55 × 1
Starting method					Line starting	Line starting
Air flow (Standard)				**CMM**	**Hi:17 Lo:10**	**44**
Fresh air intake					Unavailable	–
Air filter, Q'ty					Long life filter × 2 (washable)	–
Shock & vibration absorber					Rubber sleeve (for fan motor)	Rubber mount (for compressor)
Electric heater				W	–	–
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 Refrigerant piping size				**mm (in)**	**Liquid line: ϕ9.52 (3/8″) Gas line: ϕ15.88 (5/8″)**	
Connecting method					**Flare piping**	
Drain hose					(Connectable with VP16)	–
Insulation for piping					Necessary (both Liquid & Gas lines)	
Accessories					Mounting kit. Wireless remote controller. Drain hose	
Optional parts					–	

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

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
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 FDKN308CEN

Item				Model	FDKN308CEN	
					FDKN308C	FDC306CEN3
Nominal cooling capacity(1)			ISO-T1	W	**7100**	
			ISO-T3		**5700**	
Power source					**1 Phase, 220/240V, 50Hz**	
Operation data(3)	ISO-T1	Cooling input		kW	3.04/3.08	
		Running current (Cooling)		A	15.5/16.2	
		Power factor (Cooling)		%	89/79	
	ISO-T3	Cooling input		kW	3.23/3.27	
		Running current (Cooling)		A	16.5/17.2	
		Power factor (Cooling)		%	89/79	
	Inrush current (L.R.A)			A	89	
	Noise level(4)			dB(A)	Hi:46 Lo:40	56
Exterior dimensions Height × Width × Depth				**mm**	**298 × 1155 × 196**	**844 × 950 × 340**
Net weight				**kg**	**13.5**	**67**
Refrigerant equipment Compressor type & Q'ty					–	**RC5532ENE1 × 1**
Motor				kW	–	**2.24**
Starting method					–	Line starting
Heat exchanger					Louver fins & inner grooved tubing	Slitted fines & bare tubing
Refrigerant control					Capillary tube	Capillary tube
Refrigerant					**R22**	
Quantity				**kg**	**Holding charged**	**1.3 [Pre-charged up to the piping length of 10m]**
Refrigerant oil				ℓ	–	**1.63 (SUNISO 3GS)**
High pressure control					High pressure regulator valve	
Air handling equipment Fan type & Q'ty					Tangential fan × 1	Propeller fan × 1
Motor				W	40× 1	60 × 1
Starting method					Line starting	Line starting
Air flow (Standard)				**CMM**	**Hi:21 Lo:15**	**54**
Fresh air intake					Unavailable	–
Air filter, Q'ty					Long life filter × 3 (washable)	–
Shock & vibration absorber					Rubber sleeve (for fan motor)	Rubber mount (for compressor)
Electric heater				W	–	–
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 Refrigerant piping size				**mm (in)**	**Liquid line: ϕ9.52 (3/8″) Gas line: ϕ15.88 (5/8″)**	
Connecting method					**Flare piping**	
Drain hose					(Connectable with VP16)	–
Insulation for piping					Necessary (both Liquid & Gas lines)	
Accessories					Mounting kit. Wireless remote controller. Drain hose	
Optional parts					–	

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

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
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 FDKN308CEP

Item				Model	FDKN308CEP	
					FDKN308C	FDC306CEP3
Nominal cooling capacity(1)			ISO-T1	W	**7100**	
			ISO-T3		**5700**	
Power source					**1 Phase, 220V, 60Hz**	
Operation data(3)	ISO-T1	Cooling input		kW	3.00	
		Running current (Cooling)		A	13.9	
		Power factor (Cooling)		%	98	
	ISO-T3	Cooling input		kW	3.23	
		Running current (Cooling)		A	15.1	
		Power factor (Cooling)		%	97	
	Inrush current (L.R.A)			A	78	
	Noise level(4)			dB(A)	Hi:46 Lo:40	59
Exterior dimensions Height × Width × Depth				**mm**	**298 × 1155 × 196**	**844 × 950 × 340**
Net weight				**kg**	**13.5**	**67**
Refrigerant equipment Compressor type & Q'ty					–	**RC5533EPE1 × 1**
Motor				kW	–	**1.87**
Starting method					–	Line starting
Heat exchanger					Louver fins & inner grooved tubing	Slitted fines & bare tubing
Refrigerant control					Capillary tube	Capillary tube
Refrigerant					**R22**	
Quantity				**kg**	**Holding charged**	**1.3 [Pre-charged up to the piping length of 10m]**
Refrigerant oil				ℓ	–	**1.63 (SUNISO 3GS)**
High pressure control					High pressure regulator valve	
Air handling equipment Fan type & Q'ty					Tangential fan × 1	Propeller fan × 1
Motor				W	40 × 1	60 × 1
Starting method					Line starting	Line starting
Air flow (Standard)				**CMM**	**Hi:21 Lo:15**	**56**
Fresh air intake					Unavailable	–
Air filter, Q'ty					Long life filter × 3 (washable)	–
Shock & vibration absorber					Rubber sleeve (for fan motor)	Rubber mount (for compressor)
Electric heater				W	–	–
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 Refrigerant piping size				**mm (in)**	**Liquid line: ϕ9.52 (3/8″) Gas line: ϕ15.88 (5/8″)**	
Connecting method					**Flare piping**	
Drain hose					(Connectable with VP16)	–
Insulation for piping					Necessary (both Liquid & Gas lines)	
Accessories					Mounting kit. Wireless remote controller. Drain hose	
Optional parts					–	

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

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
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 FDKN308CES

Item				Model	FDKN308CES	
					FDKN308C	FDC306CES3
Nominal cooling capacity(1)			ISO-T1	W	**7100/7700**	
			ISO-T3		**5700/6000**	
Power source					**3 Phase, 380-415V 50Hz or 380V 50Hz/415V 50Hz, 380V 60Hz**	
Operation data(3)	ISO-T1	Cooling input		kW	2.80/2.81/3.32	
		Running current (Cooling)		A	5.2/5.2/5.9	
		Power factor (Cooling)		%	82/75/85	
	ISO-T3	Cooling input		kW	2.99/3.00/3.55	
		Running current (Cooling)		A	5.6/5.6/6.4	
		Power factor (Cooling)		%	81/75/84	
	Inrush current (L.R.A)			A	43	
	Noise level(4)			dB(A)	Hi:46 Lo:40	59
Exterior dimensions Height × Width × Depth				**mm**	**298 × 1155 × 196**	**844 × 950 × 340**
Net weight				**kg**	**13.5**	**67**
Refrigerant equipment Compressor type & Q'ty					–	**RC5538ESE1 × 1**
Motor				kW	–	**2.24**
Starting method					–	Line starting
Heat exchanger					Louver fins & inner grooved tubing	Slitted fines & bare tubing
Refrigerant control					Capillary tube	Capillary tube
Refrigerant					**R22**	
Quantity				**kg**	**Holding charged**	**1.3 [Pre-charged up to the piping length of 10m]**
Refrigerant oil				ℓ	–	**1.63 (SUNISO 3GS)**
High pressure control					High pressure regulator valve	
Air handling equipment Fan type & Q'ty					Tangential fan × 1	Propeller fan × 1
Motor				W	40 × 1	60 × 1
Starting method					Line starting	Line starting
Air flow (Standard)				**CMM**	**Hi:21 Lo:15**	**54/56**
Fresh air intake					Unavailable	–
Air filter, Q'ty					Long life filter × 3 (washable)	–
Shock & vibration absorber					Rubber sleeve (for fan motor)	Rubber mount (for compressor)
Electric heater				W	–	–
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 Refrigerant piping size				**mm (in)**	**Liquid line: ϕ9.52 (3/8″) Gas line: ϕ15.88 (5/8″)**	
Connecting method					**Flare piping**	
Drain hose					(Connectable with VP16)	–
Insulation for piping					Necessary (both Liquid & Gas lines)	
Accessories					Mounting kit. Wireless remote controller. Drain hose	
Optional parts					–	

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

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
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.

11.2.2 Renge of usage & limitations

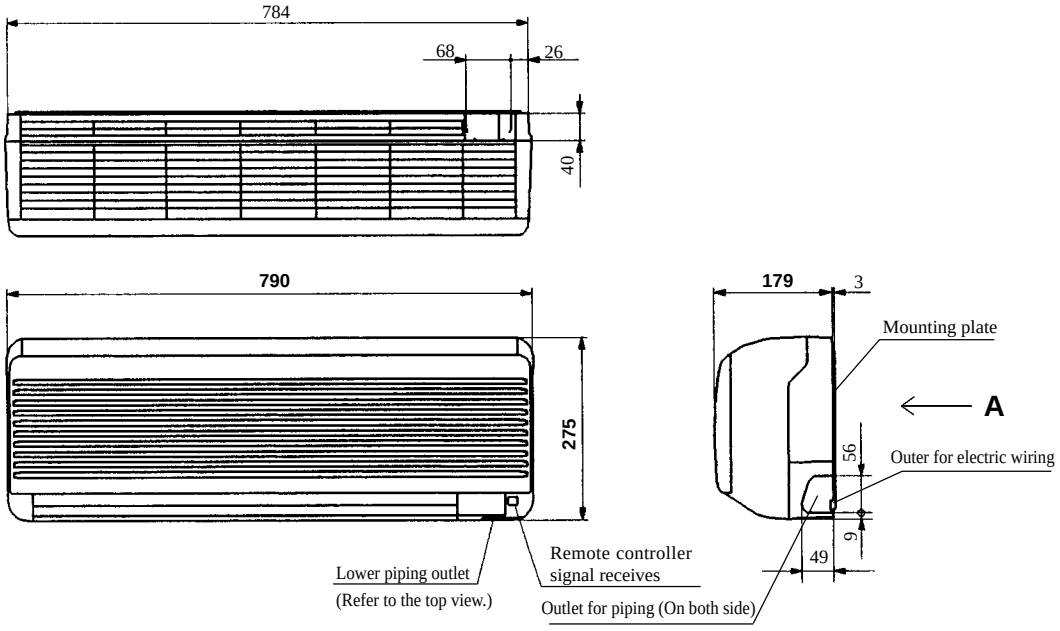
Item \ Models	FDKN208, 258 (FDC208, 258 type)	FDKN208, 258, 308 (FDC206, 256, 306 type)
Indoor return air temperature (Upper, lower limits)	Refer to the selection chart	
Outdoor air temperature (Upper, lower limits)		
Refrigerant line (one way) length	30 m	
Vertical height difference between outdoor unit and indoor unit	Max. 20 m (Outdoor unit is higher) Max. 15 m (Outdoor unit is lower)	15 m
Power source voltage	Rating ± 10%	
Voltage at starting	Min. 85% of rating	
Frequency of ON-OFF cycle	Max. 10 times/h	
ON and OFF interval	Min. 3 minutes	

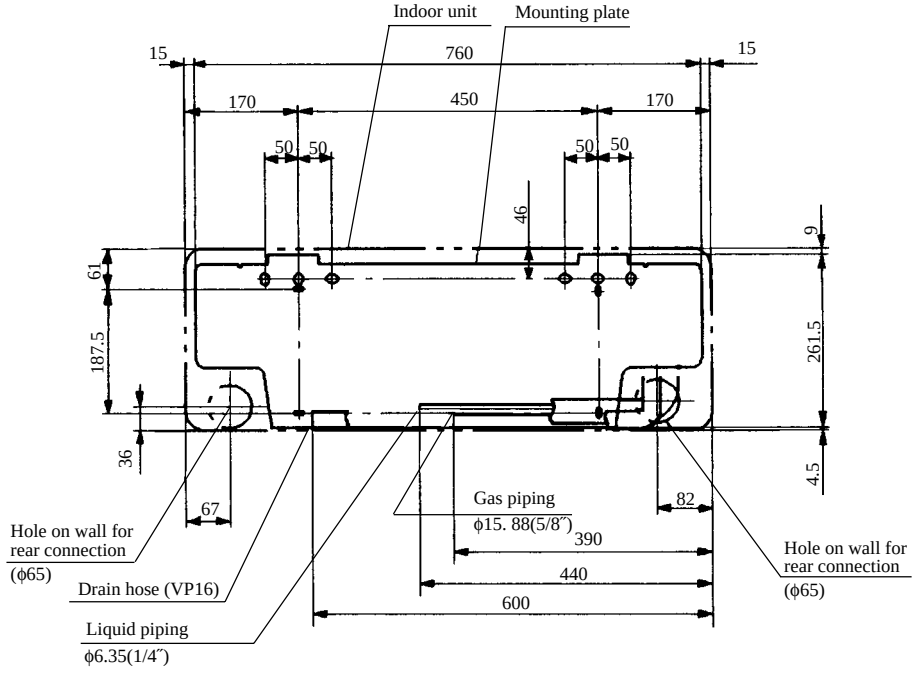
11.2.3 Exterior dimensions

(1) Indoor unit

Model FDKN208C

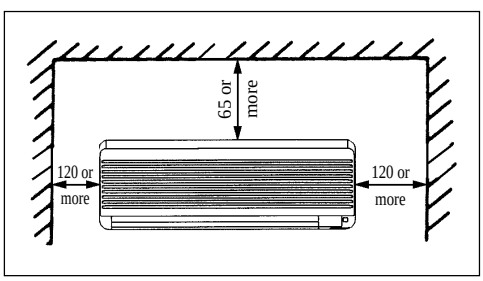
Unit: mm





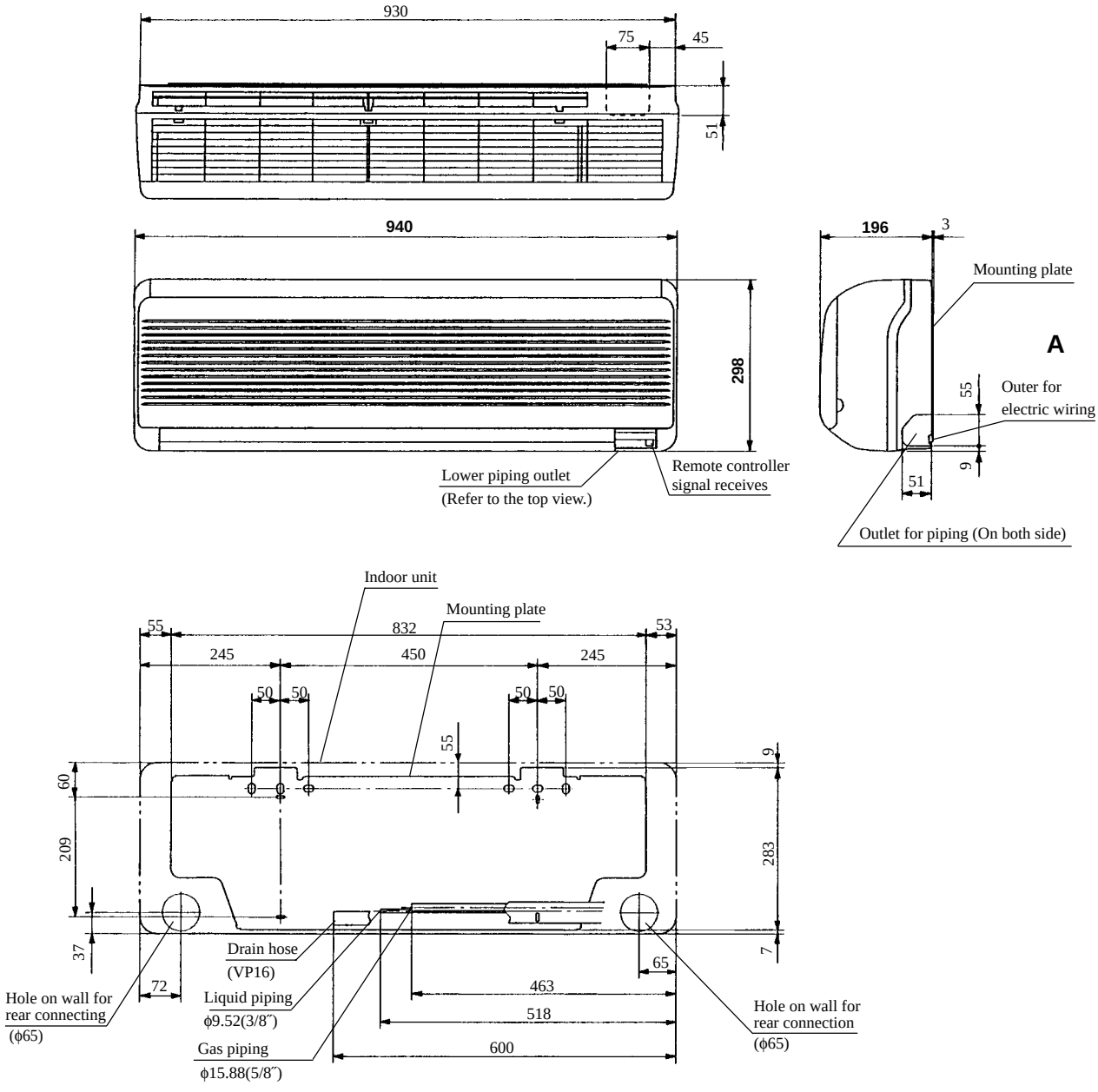
VIEW A (Rear side)

Space for installation and service



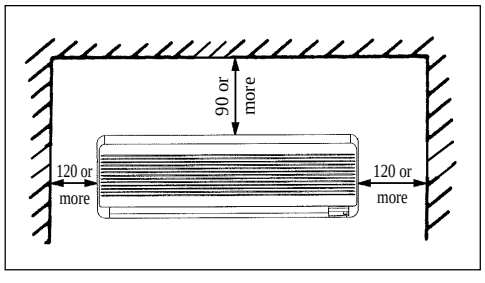
Model FDKN258C

Unit: mm



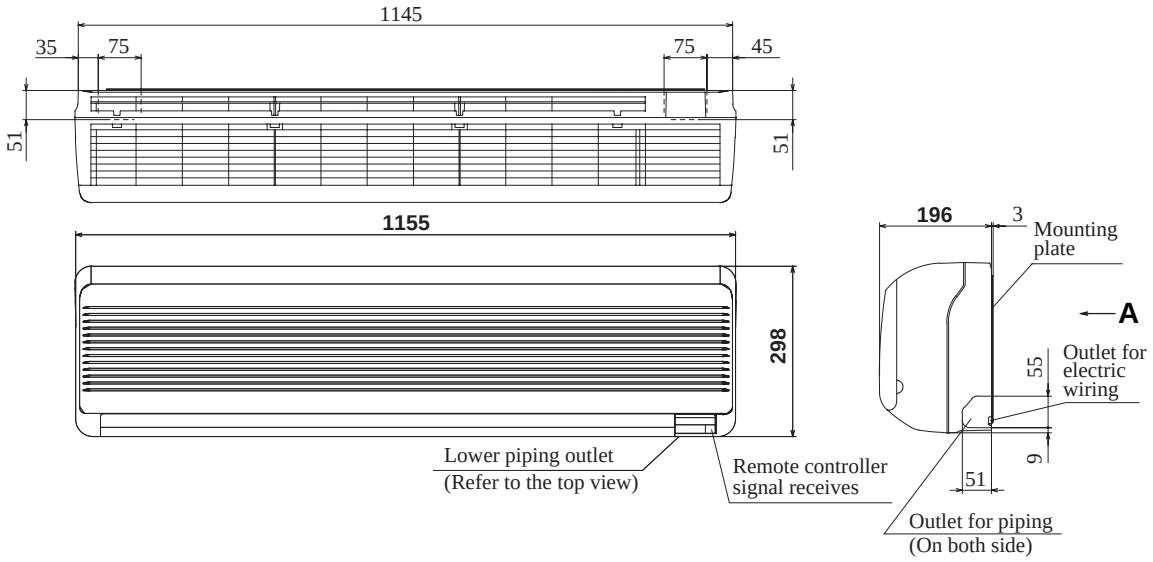
VIEW A (Rear side)

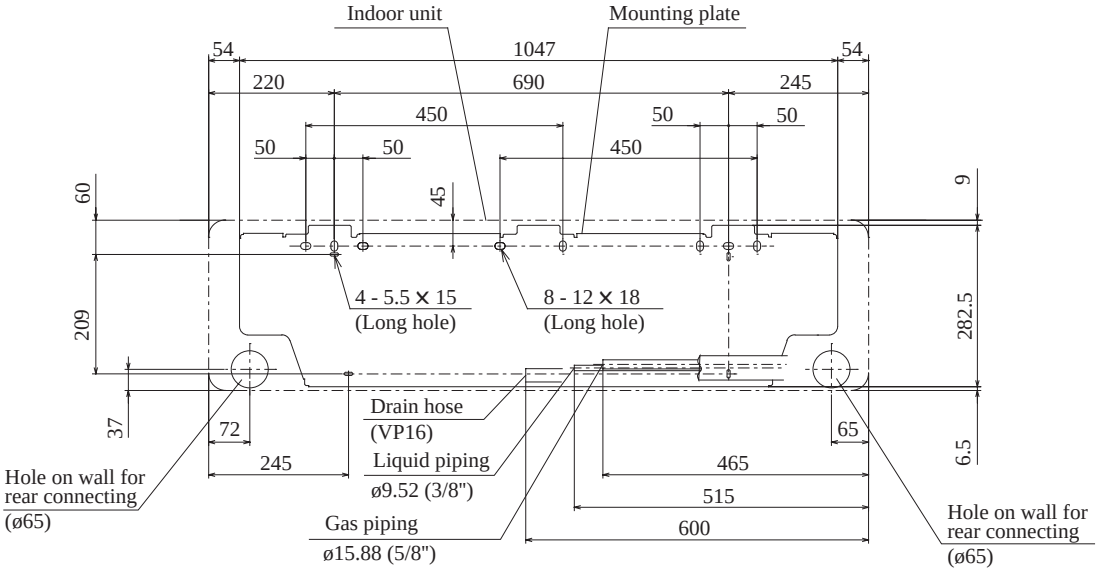
Space for installation and service



Model FDKN308C

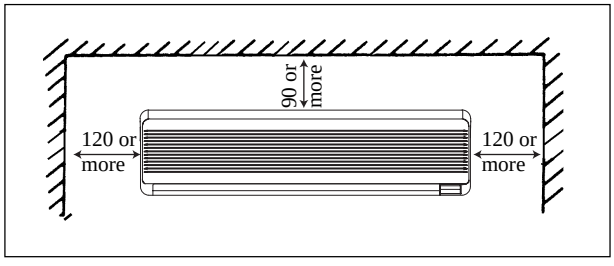
Unit : mm



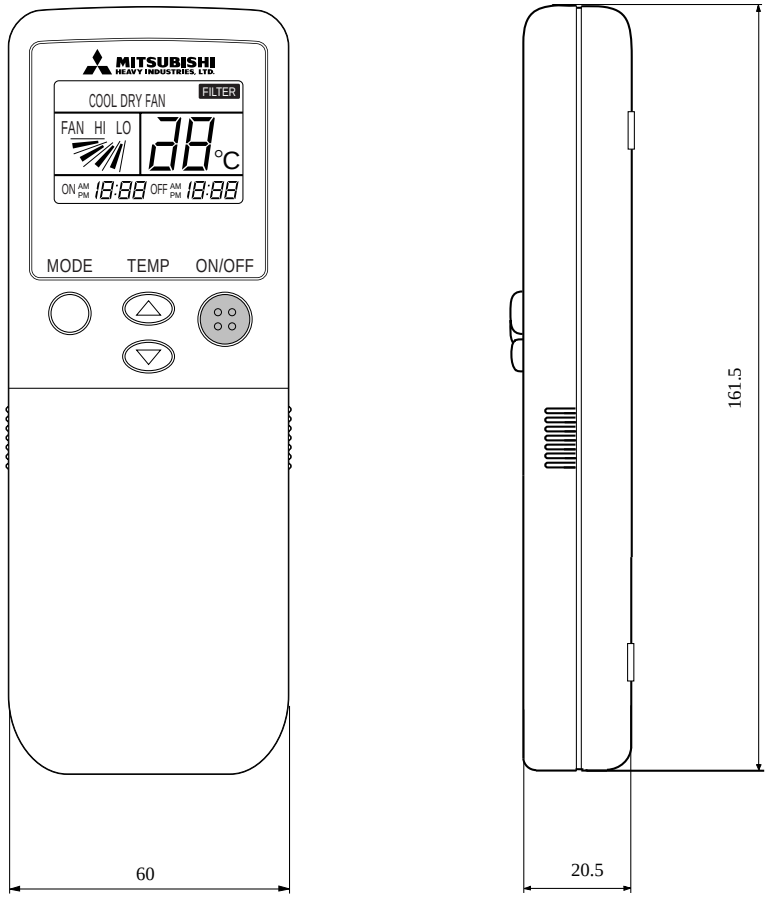


VIEW A (Rear side)

Space for installation and service

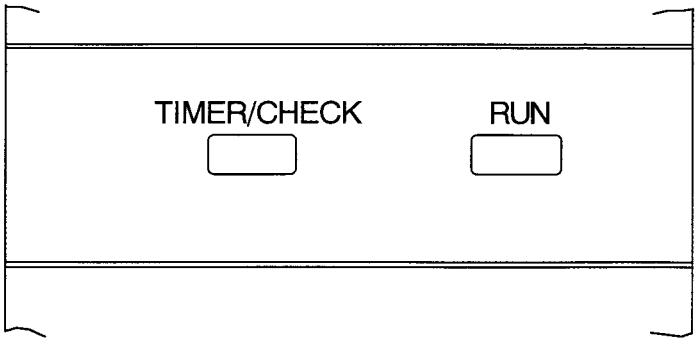


(2) Wireless remote controller



Unit : mm

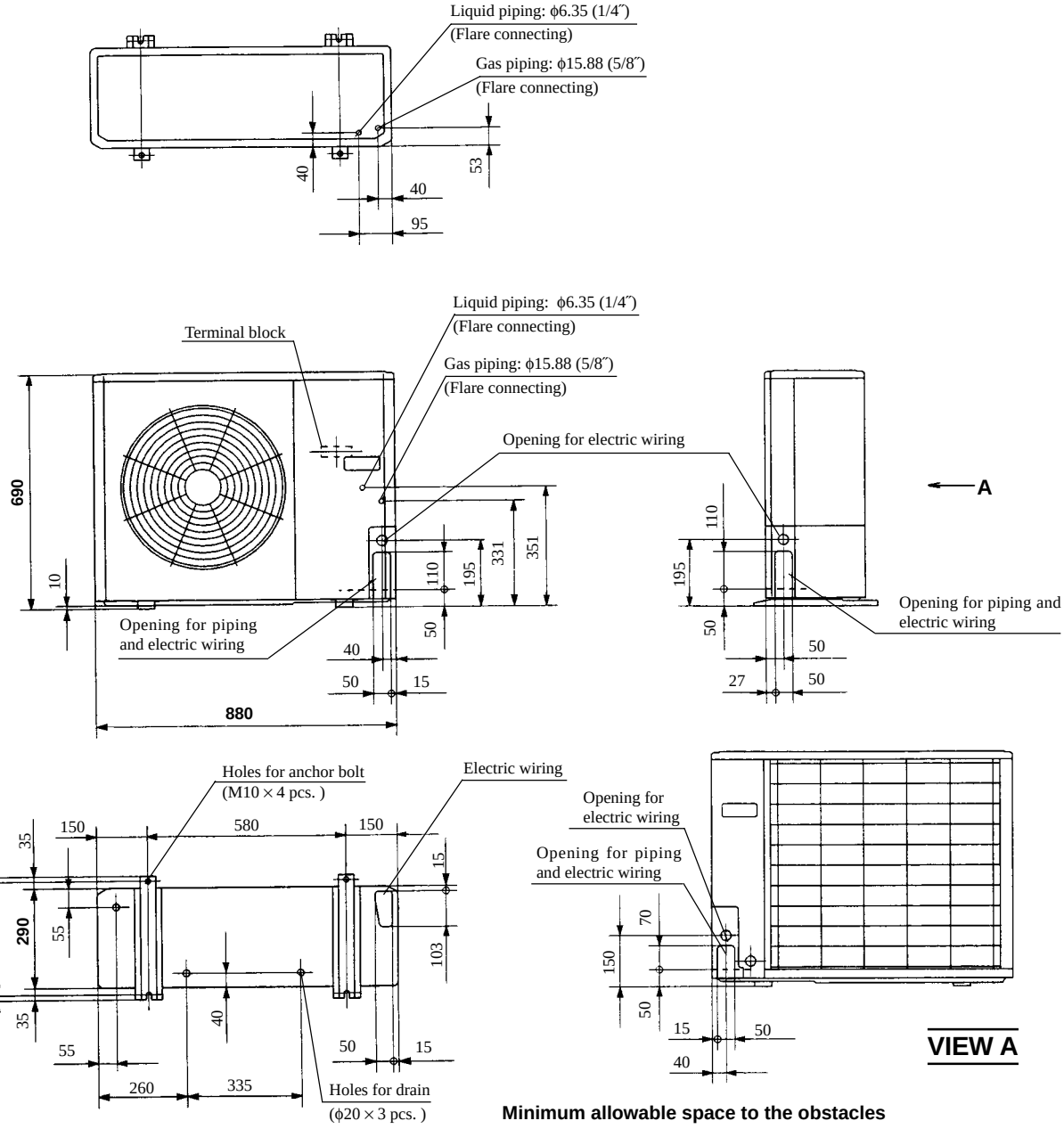
(3) Inication board of indoor unit



(4) Outdoor unit

Models FDC208CEN3, 208CEP3

Unit: mm

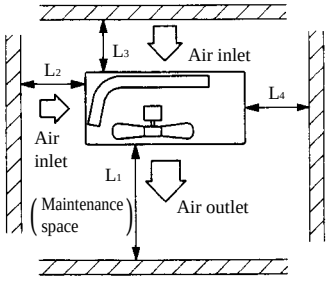


Minimum allowable space to the obstacles

Unit: mm

Mark \ Installation type	Ⅰ	Ⅱ	Ⅲ
L_1	Open	Open	500
L_2	300	5	Open
L_3	100	150	100
L_4	5	5	5

Required space for maintenance and air flow

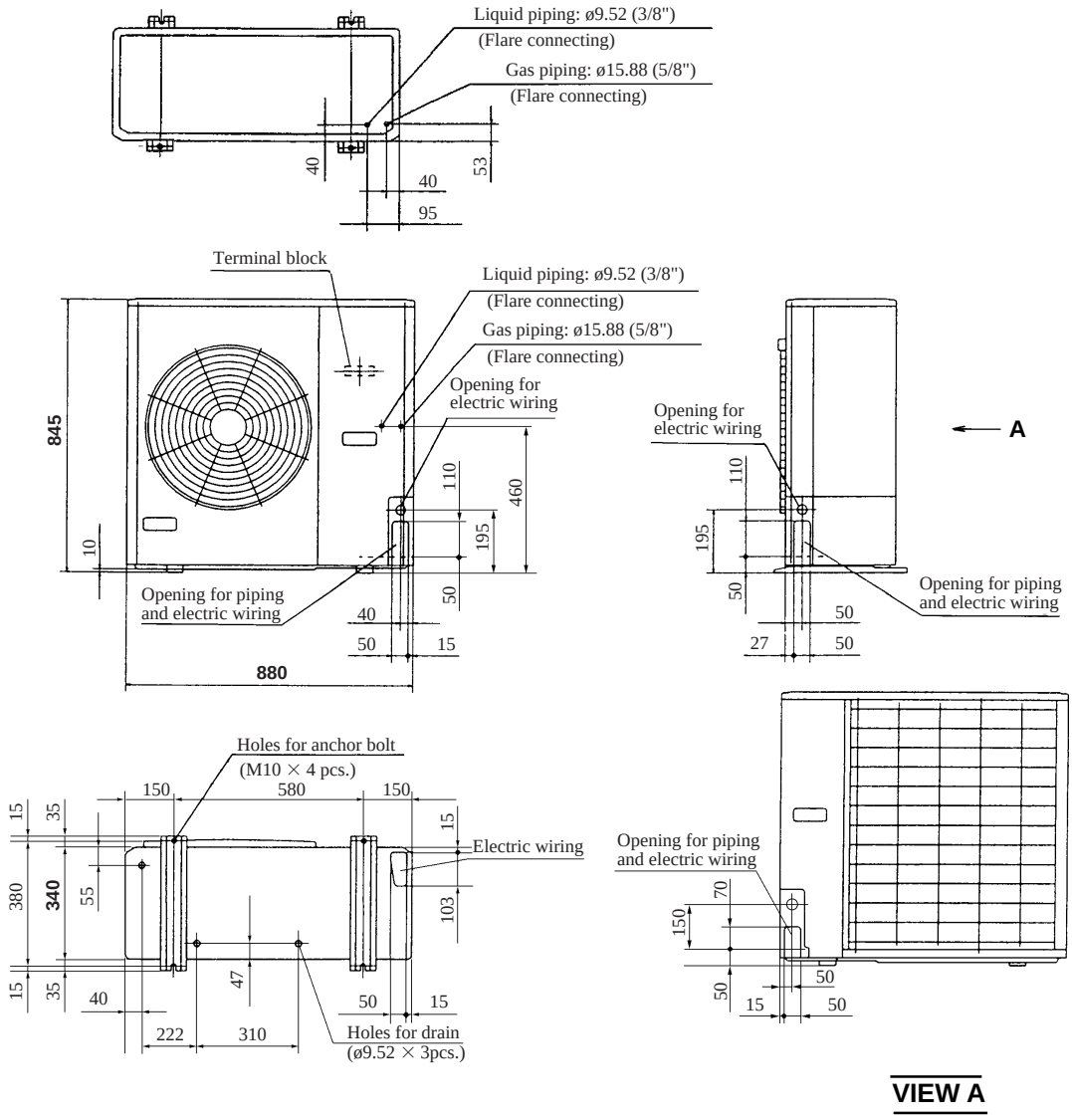


Notes

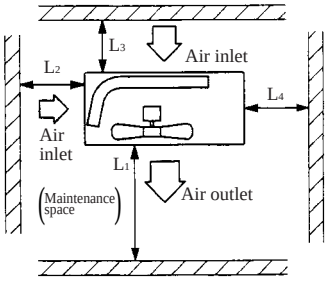
(1) Avoid the location where four sides are entirely surrounded by walls.
(2) Fix the unit by anchor bolts without fail. Restrict the protrusion length of anchor bolt to 15 mm and under.
(3) When strong wind blows against the unit, direct the discharge port at a right angle to the wind direction.
(4) 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



Required space for maintenance and air flow



Minimum allowable space to the obstacles

Unit:mm

Mark \ Installation type	Ⅰ	Ⅱ	Ⅲ
L_1	Open	Open	500
L_2	300	5	Open
L_3	100	150	100
L_4	5	5	5

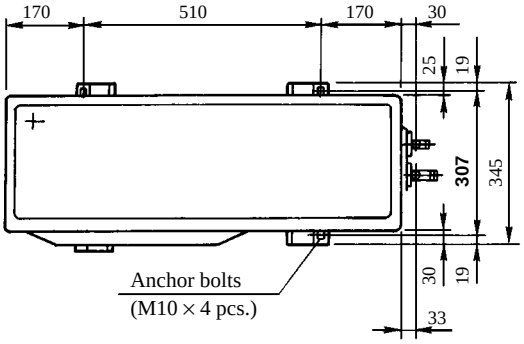
Notes

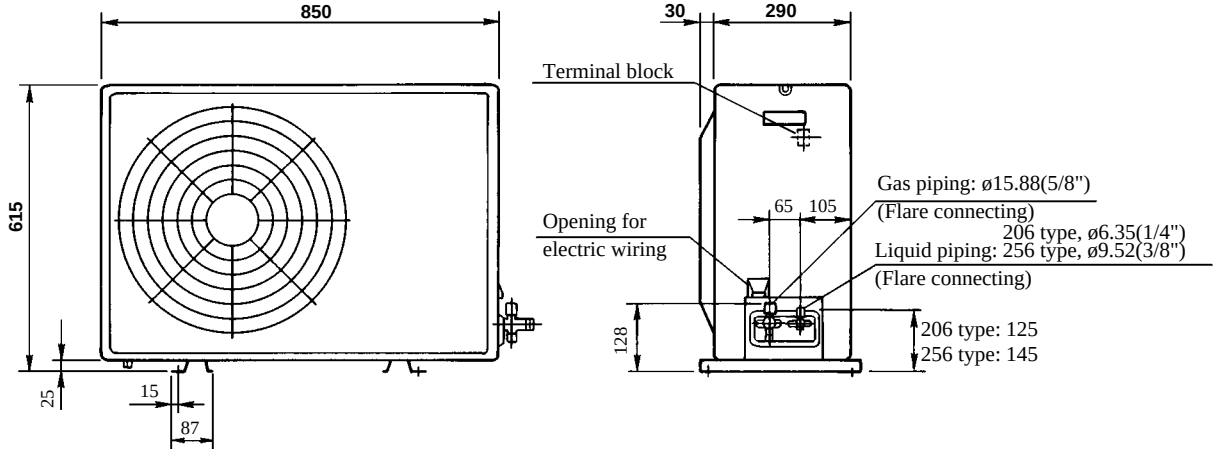
(1) Avoid the location where four sides are entirely surrounded by walls.
(2) Fix the unit by anchor bolts without fail. Restrict the protrusion length of anchor bolt to 15 mm and under.
(3) When strong wind blows against the unit, direct the discharge port at a right angle to the wind direction.
(4) 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.

FDKN-C

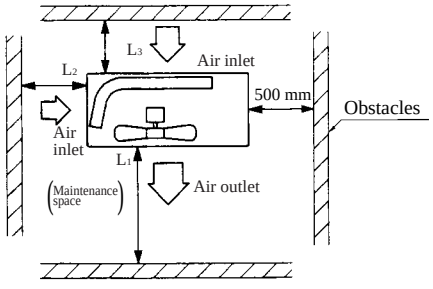
Models FDC206CEN3, 206CEP3, 256CEN3, 256CEP3

Unit: mm





Required space for maintenance and air flow



Minimum allowable space to the obstacles

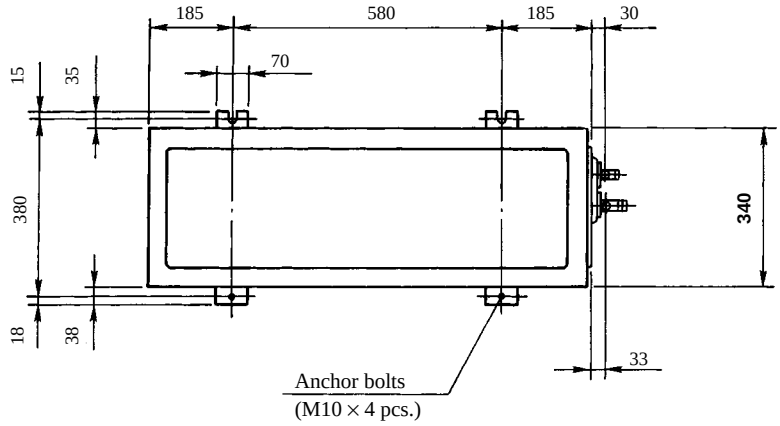
Unit:mm

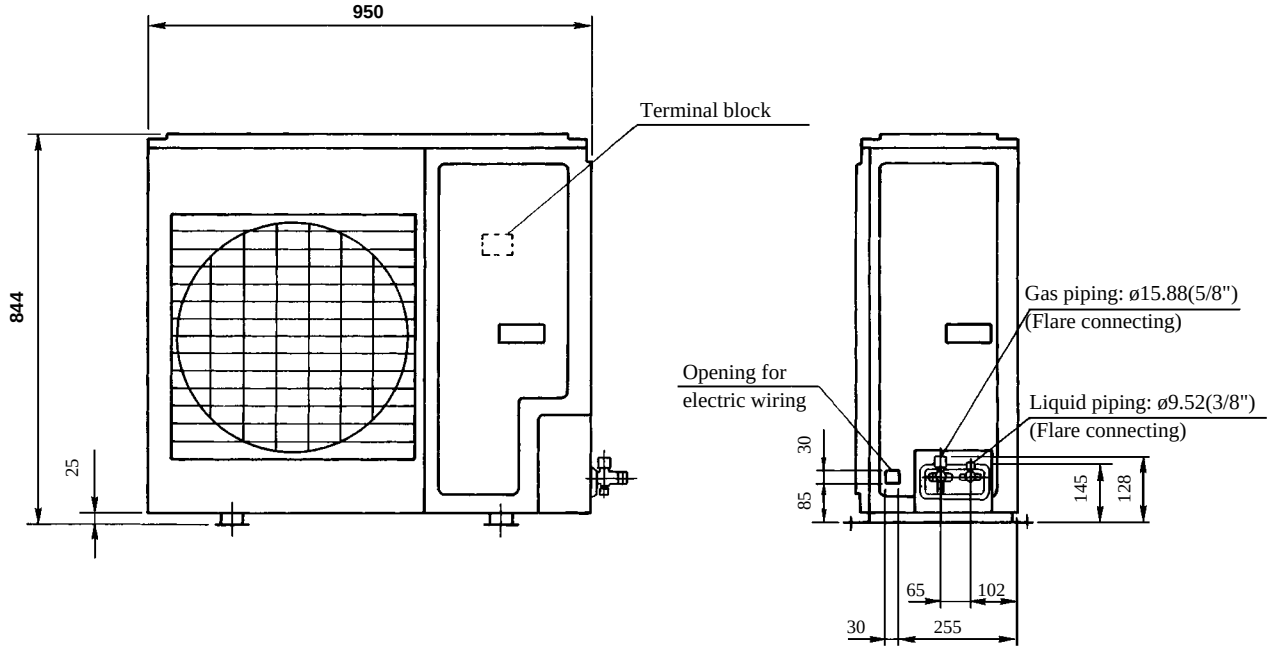
Mark \ Installation type	Ⅰ	Ⅱ
L_1	Open	100
L_2	100	Open
L_3	100	500

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.

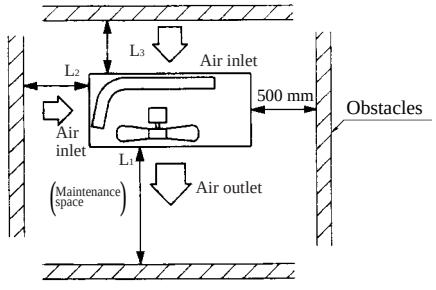
Models FDC306CEN3, 306CEP3, 306CES3

Unit: mm





Required space for maintenance and air flow



Minimum allowable space to the obstacles

Unit:mm

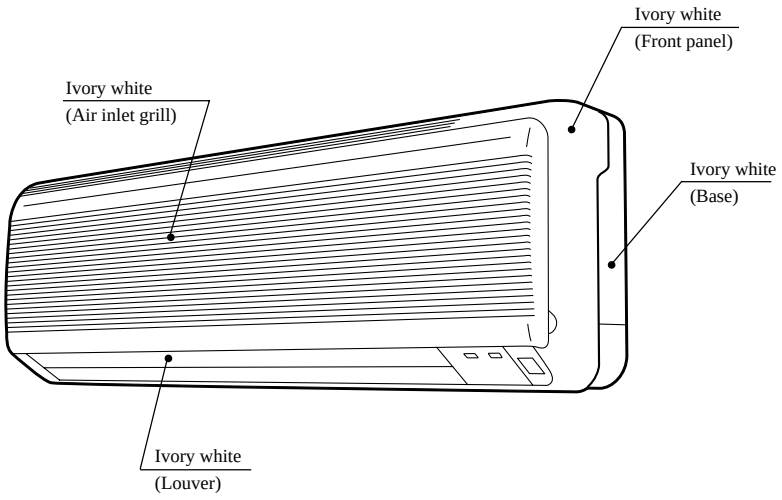
Mark \ Installation type	Ⅰ	Ⅱ	Ⅲ
L_1	Open	Open	500
L_2	300	0	Open
L_3	100	150	100

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.

11.2.4 Exterior appearance

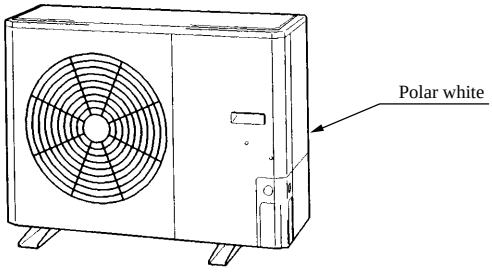
(1) Indoor unit

Models All models

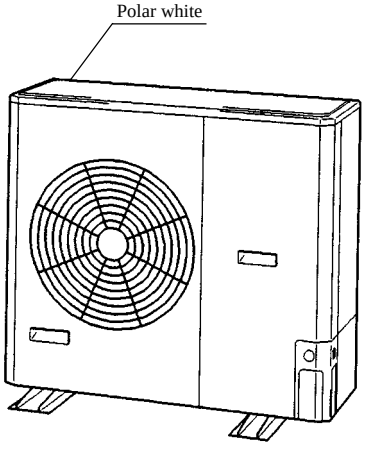


(2) Outdoor unit

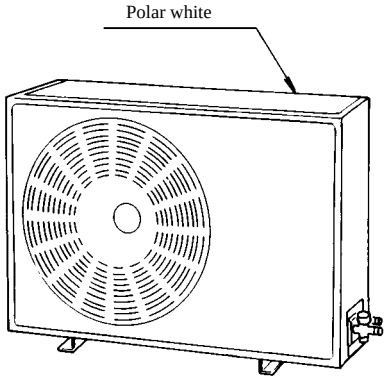
Models FDC208CEN3, 208CEP3



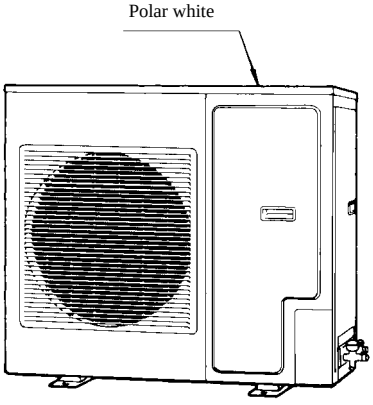
Models FDC258CEN3, 258CEP3



Models FDC206CEN3, 206CEP3, 256CEN3
256CEP3

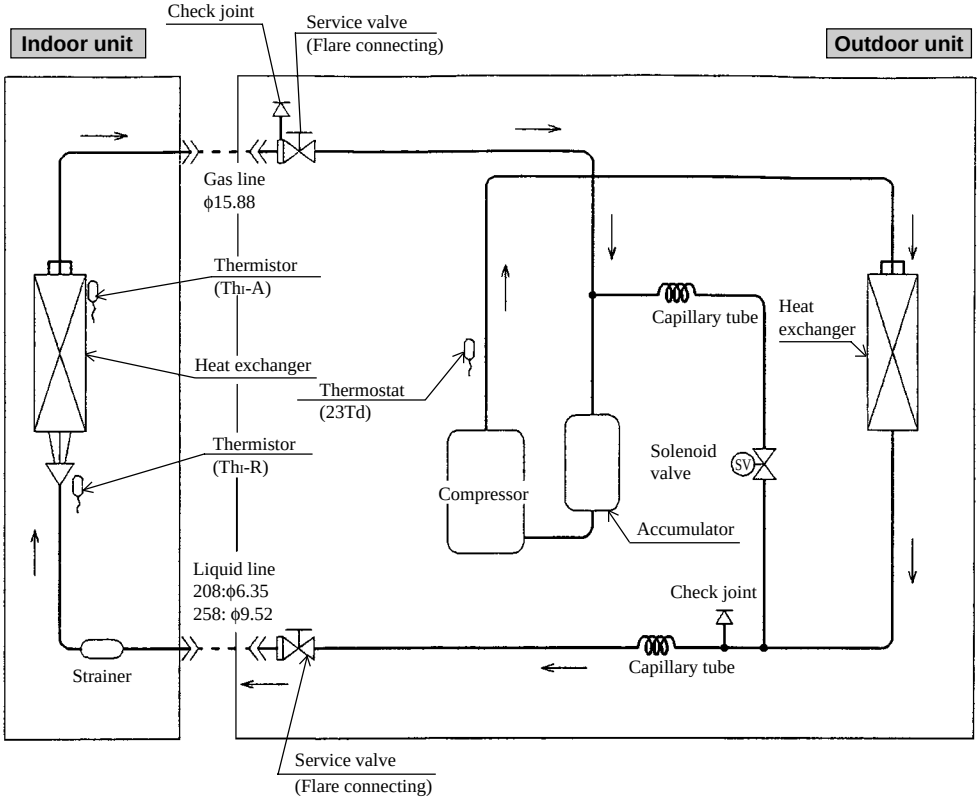


Models FDC306CEN3, 306CEP3, 306CES3

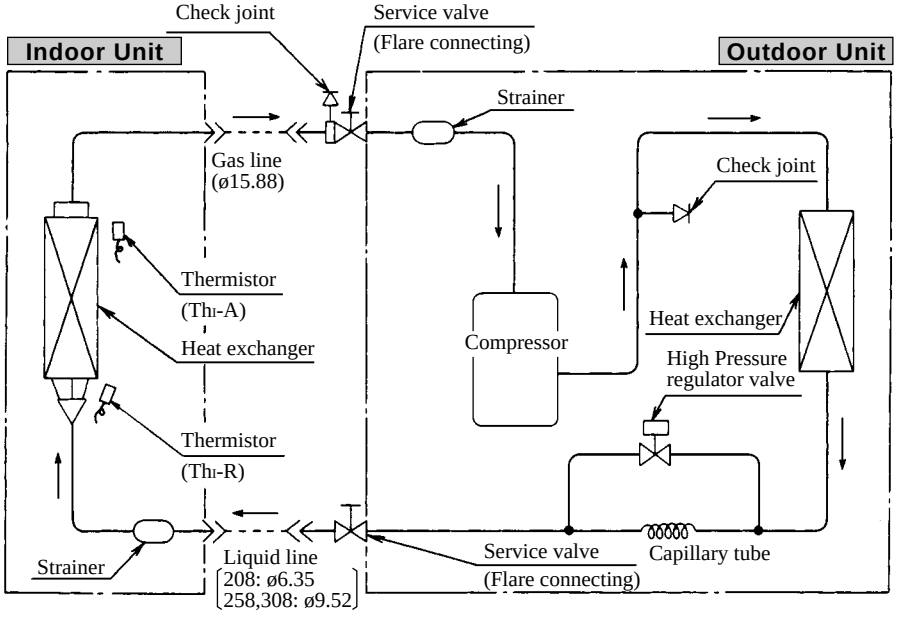


11.2.5 Piping system

Models FDKN208CEN-S, 208CEP-S, 258CEN-S, 258CEP-S



Models FDKN208CEN, 208CEP, 258CEN, 258CEP, 308CEN, 308CEP, 308CES



Preset point of the protective devices

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

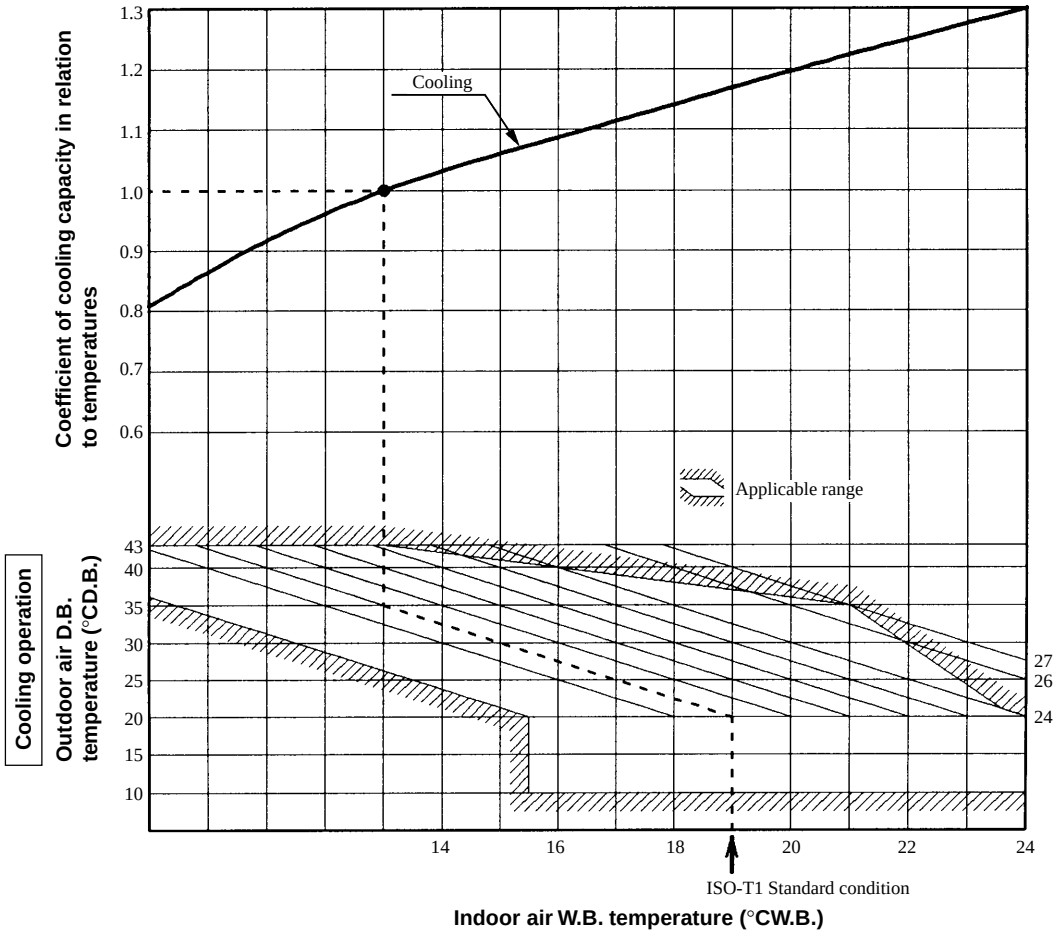
11.2.6 Selection chart

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 specifications × 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

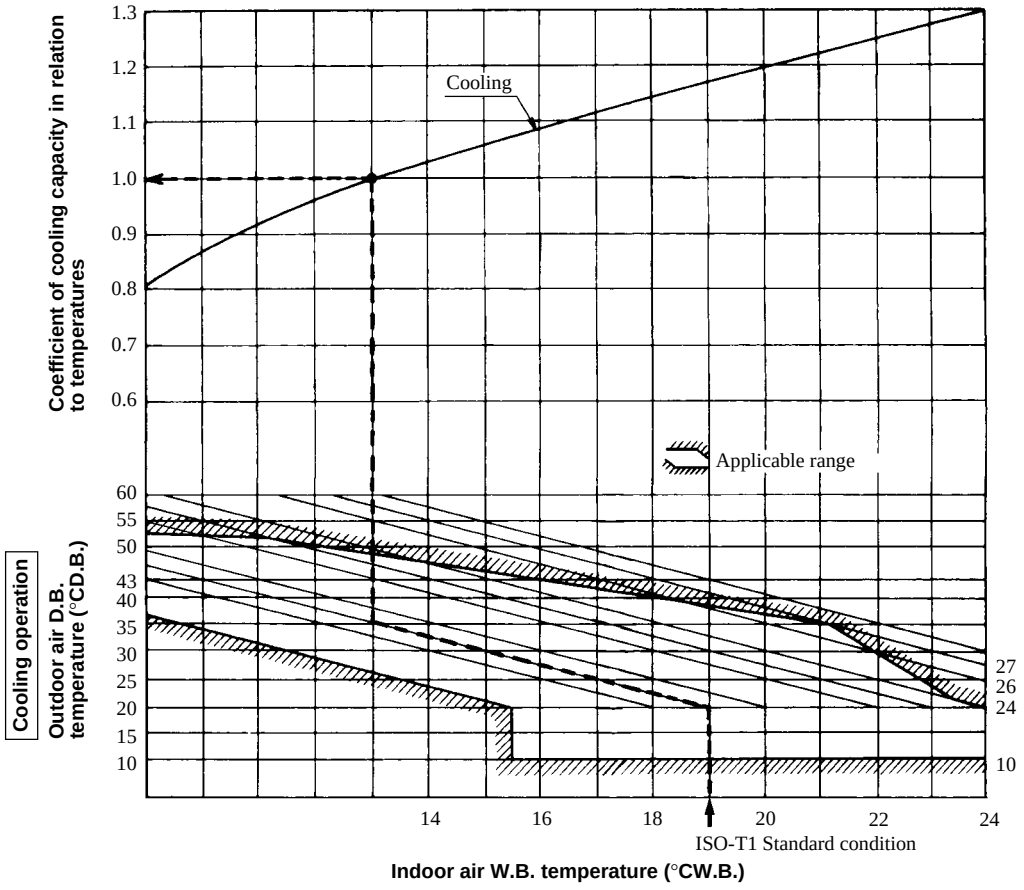


Table of bypass factor

Item \ Model		FDKN208 type	FDKN258 type	FDKN308 type
Air flow	Hi	0.03	0.03	0.04

(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(1) m		5	10	15	20	25	30	35
Cooling	FDKN208type	1.0	0.995	0.995/0.99	0.99/0.985	0.985/0.98	0.985/0.975	0.98/0.97
	FDKN258type	1.0	0.995	0.99	0.985	0.98	0.975	0.97
	FDKN308type	1.0	0.99	0.98/0.975	0.97/0.965	0.96/0.95	0.95/0.94	0.94/0.925

Note (1) Equivalent piping length can be obtained by calculating as follows.
Equivalent piping length = Real piping length + (0.10 × Number of bends in piping)
[Equivalent piping length Limitation length of piping + 5 m]

(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	5 m	10 m	15 m
Adjustment coefficient	0.01	0.02	0.03

Piping length limitations

Item \ Model	FDKN208, 258 (FDC208, 258 type)	FDKN208, 258, 308 (FDC206, 256, 306 type)
Max. one way piping length	30 m	
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 FDKN258CEN-S with the air flow “High”, the piping length of 15 m, the outdoor unit located 5 m above the indoor unit, indoor wet-bulb temperature at 19.0°C and outdoor dry-bulb temperature 35°C is

Net cooling capacity = 5700 × 1.00 × (0.99-0.01) × 1.0 = 5586 W

- 5700: FDKN258CEN-S
- 1.00: Air flow “High”
- (0.99-0.01): Length 15 m. Height difference 5 m
- 1.0: Factor by air temperatures

11.2.7 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,

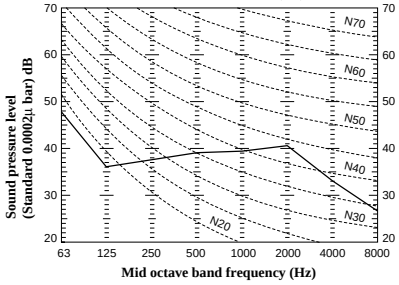
Indoor unit
Measured based on JIS B 8616
Mike position as below

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

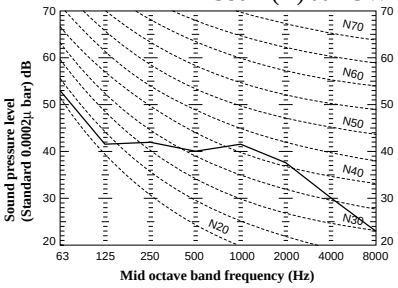
(2) The data in the chart are measured in an unechonic room.
(3) The noise levels measured in the field are usually higher than the data because of reflection.

(1) Indoor unit

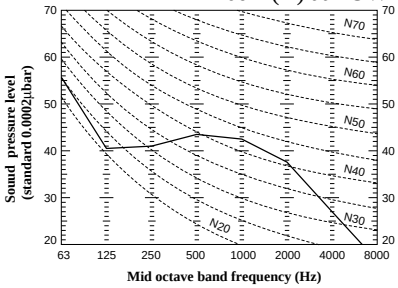
Model FDKN208C
Noise level 45dB (A) at HIGH
38dB (A) at LOW



Model FDKN258C
Noise level 45dB (A) at HIGH
38dB (A) at LOW

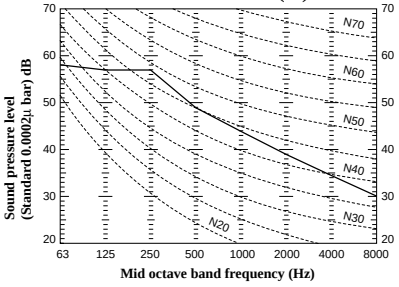


Model FDKN308C
Noise level 46dB (A) at HIGH
40dB (A) at LOW

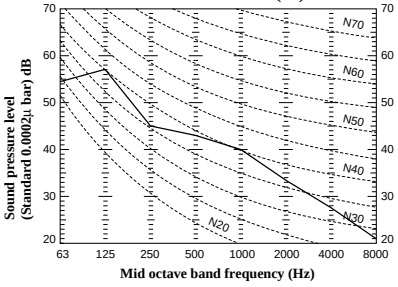


(2) Outdoor unit

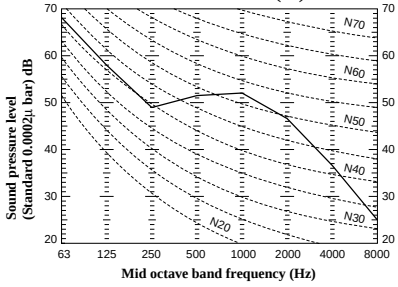
Model FDC208CEN3
Noise level 52 dB (A)



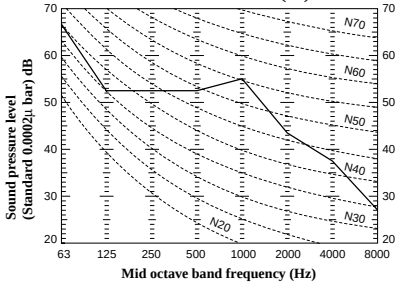
Model FDC208CEP3
Noise level 52 dB (A)



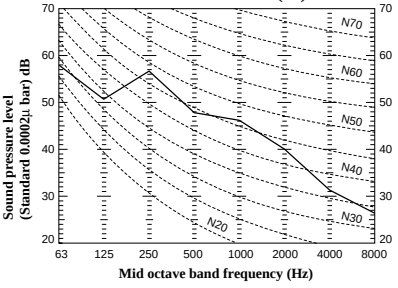
Model FDC206CEN3
Noise level 59 dB (A)



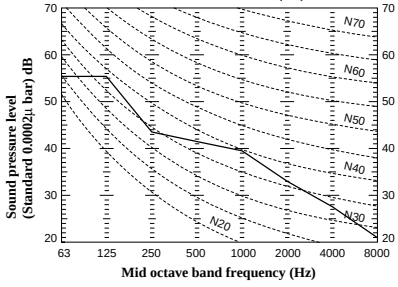
Model FDC206CEP3
Noise level 59 dB (A)



Model FDC258CEN3
Noise level 52 dB (A)



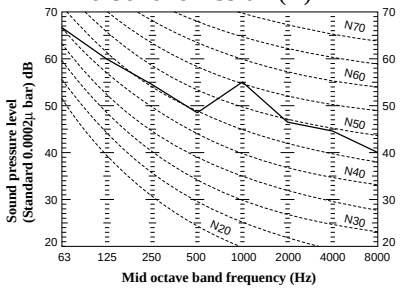
Model FDC258CEP3
Noise level 52 dB (A)



FDKN-C

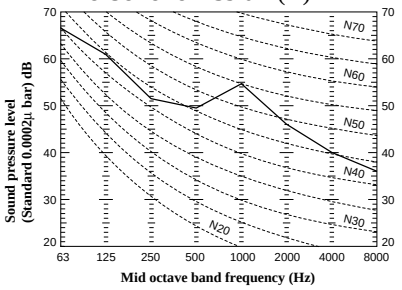
Model FDC256CEN3

Noise level 59 dB (A)



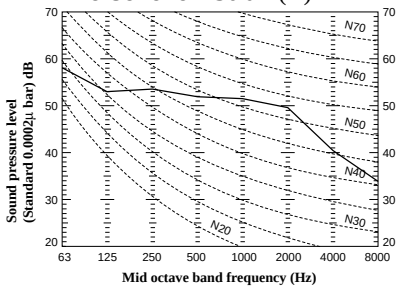
Model FDC256CEP3

Noise level 59 dB (A)



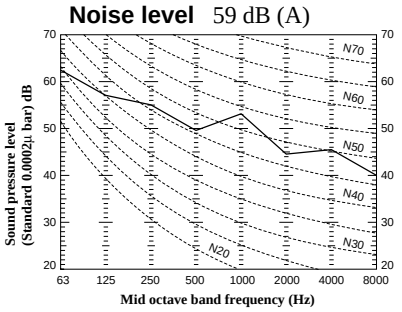
Model FDC306CEN3

Noise level 56 dB (A)



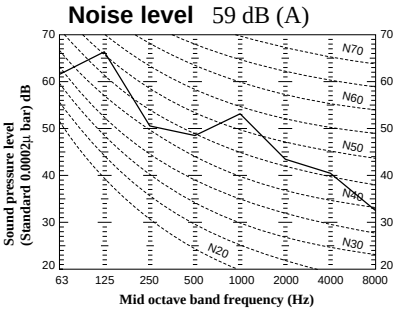
Model FDC306CEP3

Noise level 59 dB (A)



Model FDC306CES3

Noise level 59 dB (A)

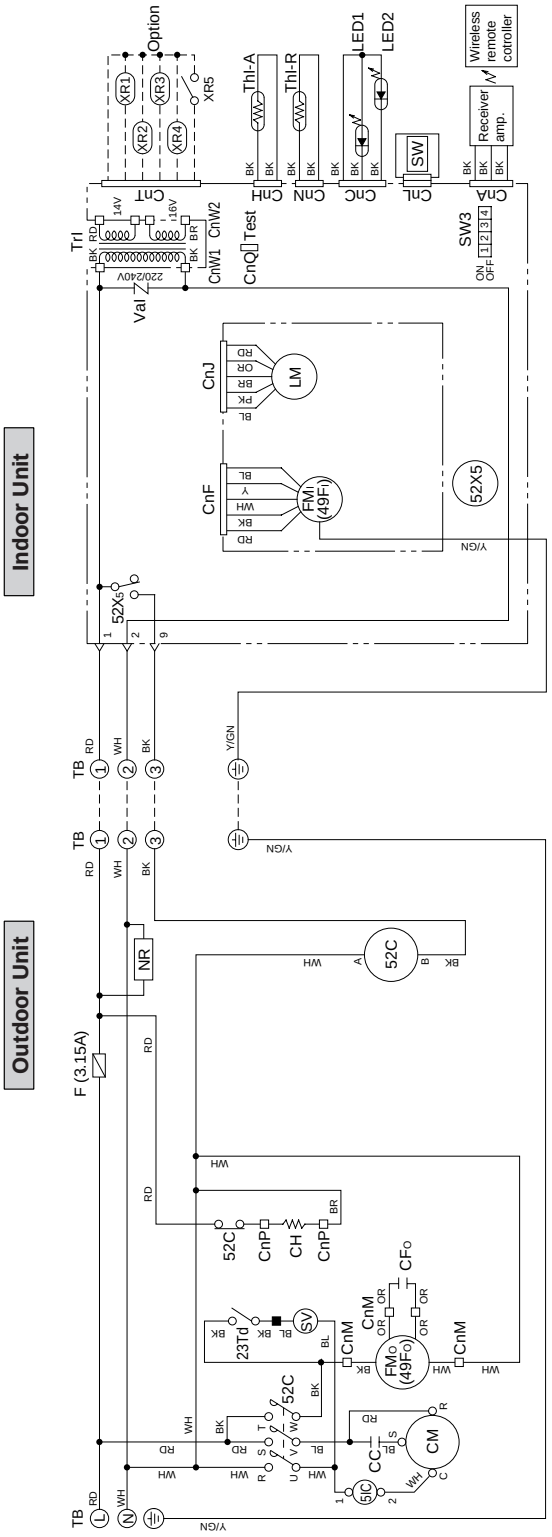


11.3 ELECTRICAL DATA

11.3.1 Electrical wiring

Models FDKN208CEN-S, 208CEP-S

Power source
FDKN208CEN-S
1 Phase 220/240V 50Hz
FDKN208CEP-S
1 Phase 220V 60Hz



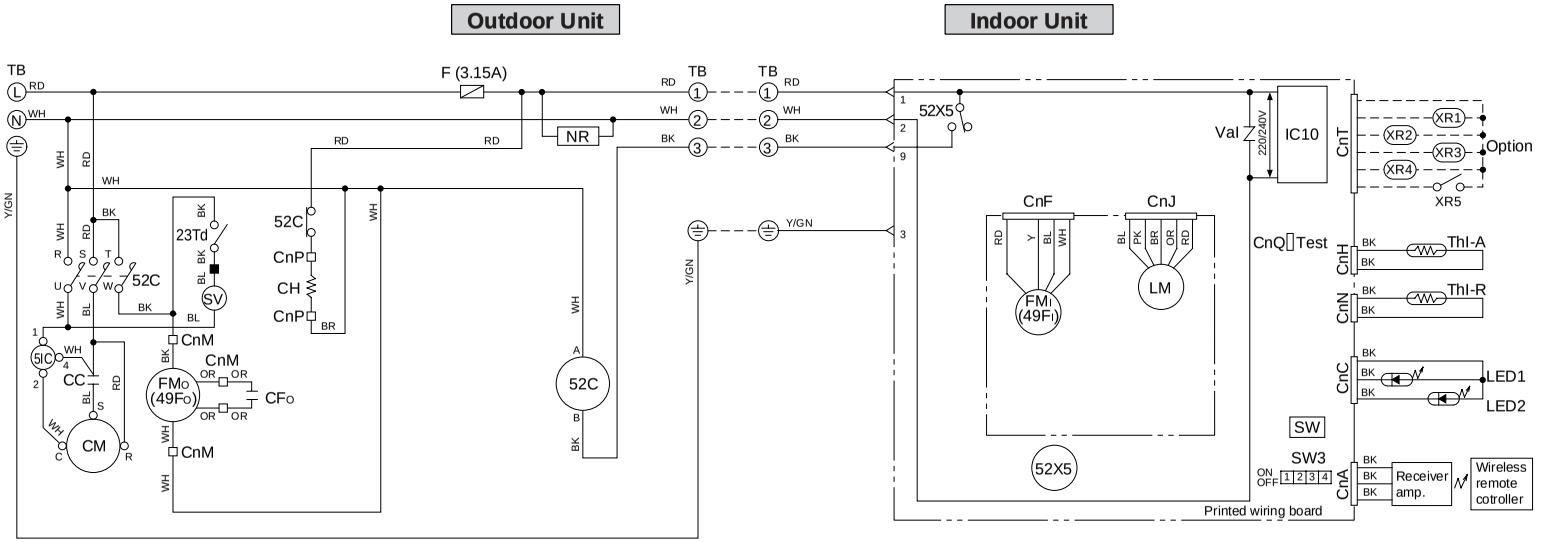
Meaning of marks

Mark	Parts name	Mark	Parts name
Cc	Capacitor for CM	**Th-A**	Thermistor
CFo	Capacitor for FMo	**Th-R**	Thermistor
CH	Crankcase heater	**Trl**	Transformer
CM	Compressor motor	**Val**	Varistor
CnA~W	Connector	**49Fi**	Internal thermostat for FMi
F	Fuse	**49Fo**	Internal thermostat for FMo
FMi	Fan motor (Indoor unit)	**23Td**	Thermostat
FMo	Fan motor (Outdoor unit)	**51C**	Overcurrent relay for CM
LED1	Indication lamp (Green-Run)	**52C**	Magnetic contactor for CM
LED2	Indication lamp (Yellow-Timer/Check)	**52X5**	Auxiliary relay
LM	Louver motor	**▽**	Terminal (F)
NR	Surge suppressor	**■**	Connector
SV	Solenoid coil (for control)		
SW	Back up switch (ON/OFF)		
SW3	Change over switch		
TB	Terminal block (◎ mark)		

Color mark

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

Power source
FDKN258CEN-S
1 Phase 220/240V 50Hz
FDKN258CEP-S
1 Phase 220V 60Hz



Meaning of marks

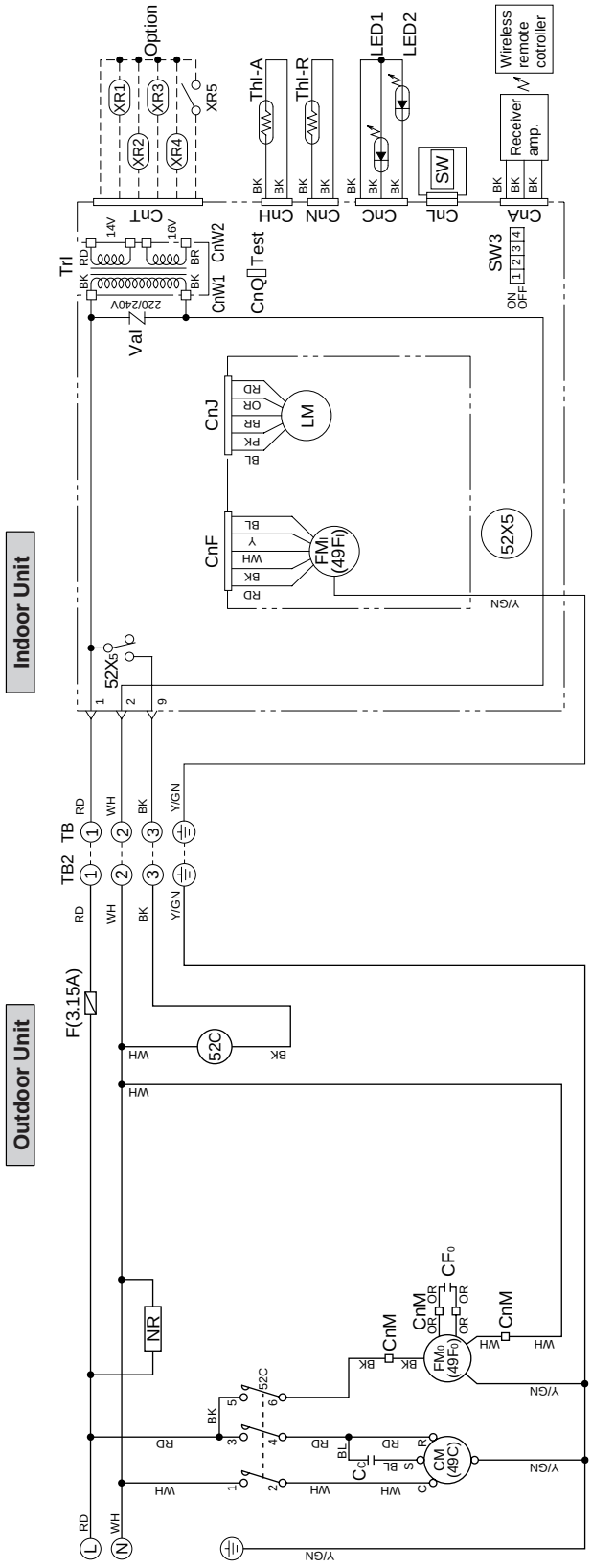
Mark	Parts name	Mark	Parts name
Cc	Capacitor for CM	**ThI-A**	Thermistor
CFo	Capacitor for FMo	**ThI-R**	Thermistor
CH	Crankcase heater	**Val**	Varistor
CM	Compressor motor	**49FI**	Internal thermostat for FMI
CnA~W	Connector	**49Fo**	Internal thermostat for FMo
F	Fuse	**23Td**	Thermostat
FMI	Fan motor (Indoor unit)	**51C**	Overcurrent relay for CM
FMo	Fan motor (Outdoor unit)	**52C**	Magnetic contactor for CM
LED1	Indication lamp (Green-Run)	**52X5**	Auxiliary relay
LED2	Indication lamp (Yellow-Timer/Check)	◁	Terminal (F)
LM	Louver motor	■	Connector
NR	Surge suppressor		
SV	Solenoid coil (for control)		
SW	Back up switch (ON/OFF)		
SW3	Change over switch		
TB	Terminal block (○ mark)		

Color mark

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

Models FDKN208CEN, 208CEP

Power source
FDKN208CEN
1 Phase 220/240V 50Hz
FDKN208CEP
1 Phase 220V 60Hz



Meaning of marks

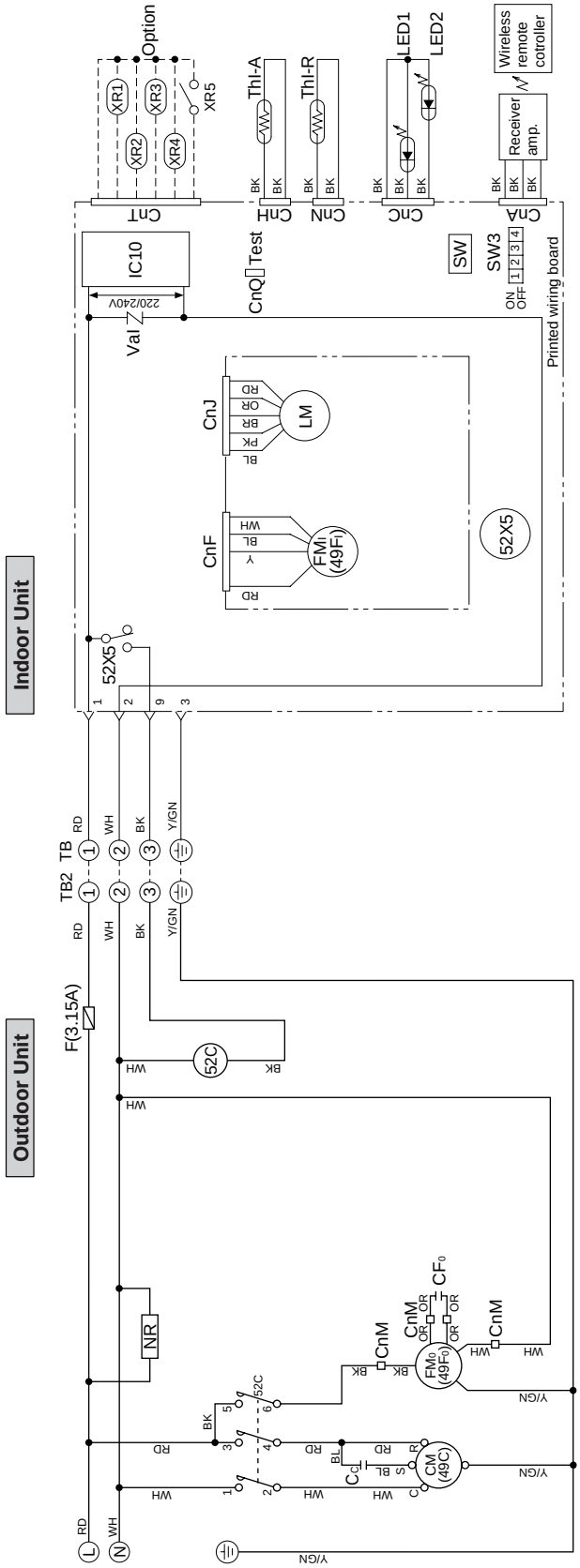
Mark	Parts name	Mark	Parts name
Cc	Capacitor for CM	**Th-A**	Thermistor
CF₀	Capacitor for FM₀	**Th-R**	Thermistor
CM	Compressor motor	**Trl**	Transformer
CnA~W	Connector	**Val**	Varistor
F	Fuse	**49Fi**	Internal thermostat for FMi
FMi	Fan motor (Indoor unit)	**49Fo**	Internal thermostat for FM₀
FM₀	Fan motor (Outdoor unit)	**49C**	Internal thermostat for CM
LED1	Indication lamp (Green-Run)	**52C**	Magnetic contactor for CM
LED2	Indication lamp (Yellow-Timer/Check)	**52X5**	Auxiliary relay
LM	Louver motor	▽	Terminal (F)
NR	Surge suppressor	■	Connector
SW	Back up switch (ON/OFF)		
SW3	Change over switch		
TB	Terminal block (○ mark)		

Color mark

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

Models FDKN258CEN, 258CEP, 308CEN, 308CEP

Power source
FDKN258CEN, 308CEN
1 Phase 220/240V 50Hz
FDKN258CEP, 308CEP
1 Phase 220V 60Hz



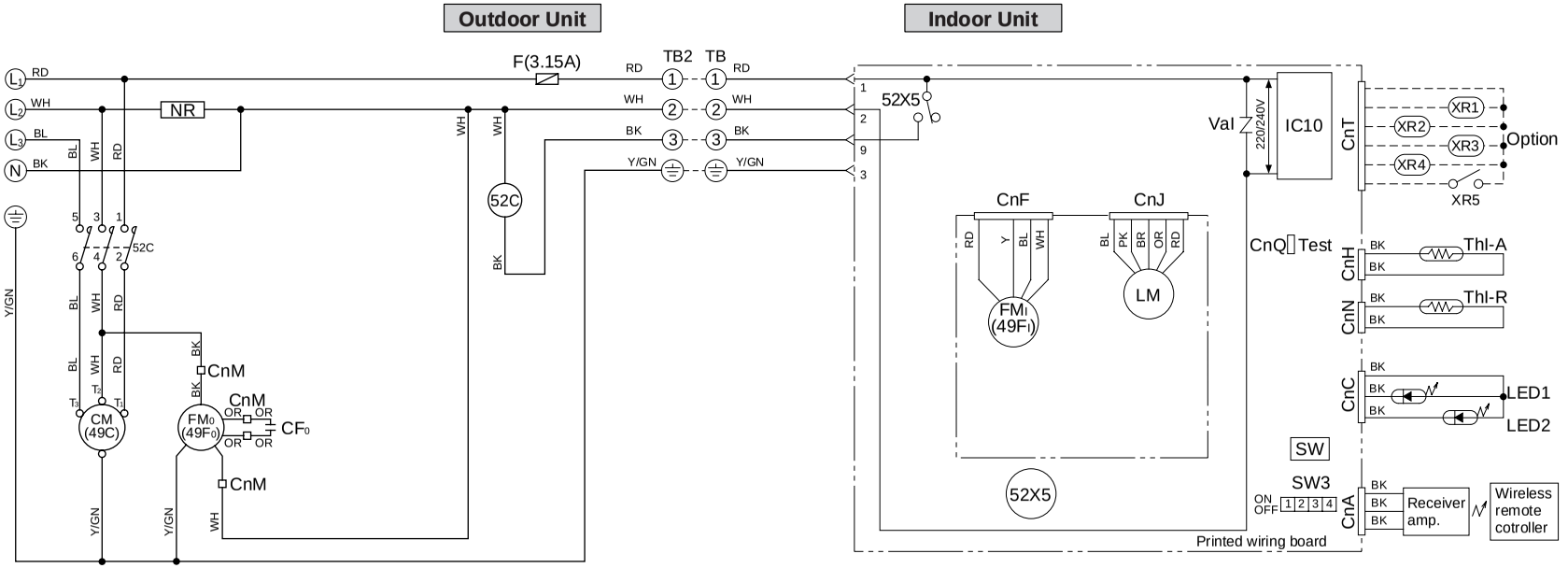
Meaning of marks

Mark	Parts name	Mark	Parts name
Cc	Capacitor for CM	**Th-A**	Thermistor
CFo	Capacitor for FMo	**Th-R**	Thermistor
CM	Compressor motor	**Val**	Varistor
CnA~W	Connector	**49FI**	Internal thermostat for FMI
F	Fuse	**49Fo**	Internal thermostat for FMo
FMI	Fan motor (Indoor unit)	**49C**	Internal thermostat for CM
FMo	Fan motor (Outdoor unit)	**52C**	Magnetic contactor for CM
LED1	Indication lamp (Green-Run)	**52X5**	Auxiliary relay
LED2	Indication lamp (Yellow-Timer/Check)	▽ ■	Terminal (F)
LM	Louver motor		Connector
NR	Surge suppressor		
SW	Back up switch (ON/OFF)		
SW3	Change over switch		
TB	Terminal block (○ mark)		

Color mark

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

Power source
3 Phase 380-415V 50Hz / 380V 60Hz



Meaning of marks

Mark	Parts name	Mark	Parts name
CFo	Capacitor for FMo	**Thi-A**	Thermistor
CM	Compressor motor	**Thi-R**	Thermistor
CnA~W	Connector	**Val**	Varistor
F	Fuse	**49Fi**	Internal thermostat for FMi
FMi	Fan motor (Indoor unit)	**49Fo**	Internal thermostat for FMo
FMo	Fan motor (Outdoor unit)	**49C**	Internal thermostat for CM
LED1	Indication lamp (Green-Run)	**52C**	Magnetic contactor for CM
LED2	Indication lamp (Yellow-Timer/Check)	**52X5**	Auxiliary relay
LM	Louver motor	◁	Terminal (F)
NR	Surge suppressor	■	Connector
SW	Back up switch (ON/OFF)		
SW3	Change over switch		
TB	Terminal block (○ mark)		

Color mark

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

11.4 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.

11.5 APPLICATION DATA

The application data for the cooling only models are similar to those for the heat pump models. (See page 464.)

11.6 MAINTENANCE DATA

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