DAIKIN

APCVDT1502A

AIR COOLED PACKAGED AIR CONDITIONERS

FLOOR STANDING TYPE

INVERTER

FLOOR STANDING TYPE

DUCT CONNECTION TYPE

VRV IV

COOLING ONLY 50Hz

R-410A

HFC R-410A Line Up for Factories and Offices

We have entered into an era where environmental responsibility has become the utmost important factor to every company.

Daikin introduced a new model featuring HFC R-410A refrigerant that could be the perfect step in promoting your corporate image.

Product Line Up R-410A Cooling only NEW

Capacity	HP	**8**	**10**	**16**	**20**
	kW	**22.4**	**28.0**	**45.0**	**56.0**
	Btu/h	76,400	95,500	154,000	191,000
	kcal/h	19,300	24,100	38,700	48,200
DUCT CONNECTION TYPE Specifications Page 5 Dimensions Page 8 — Indoor unit	PAIR	 FXVQ200NY1	 FXVQ250NY1	 FXVQ400NY1	 FXVQ500NY1
OUTDOOR UNIT [1] Dimensions Page 10 — Outdoor unit	PAIR	 RXQ8TY1(E)	 RXQ10TY1(E)	 RXQ16TY1(E)	 RXQ20TY1(E)
REFNET (JOINT+REDUCER)	PAIR	–	–	–	–
OUTDOOR UNIT MULTI CONNECTION PIPING KIT [2]	PAIR	–	–	–	–

	16	24	30	48	60
	45.0	**67.0**	**83.5**	**134**	**168**
	154,000	229,000	285,000	457,000	573,000
	38,700	57,600	71,800	115,000	144,000
TRIPLE	 FXVQ125NY1 × 3	 FXVQ200NY1 × 3	 FXVQ250NY1 × 3	 FXVQ400NY1 × 3	 FXVQ500NY1 × 3
TRIPLE	 RXQ16TY1(E)	 RXQ24TSY1(E)	 RXQ30TSY1(E)	 RXQ48TSY1(E)	 RXQ60TNY1(E)
TRIPLE	KHRP26A33T, KHRP26A72T	KHRP26A72T, KHRP26A73T +KHRP26M73TP	KHRP26A72T, KHRP26A73T +KHRP26M73TP	(KHRP26A73T +KHRP26M73TP) x 2	(KHRP26A73T +KHRP26M73TP) x 2
TRIPLE	–	BHFP22P100	BHFP22P100	BHFP22P151	BHFP22P151

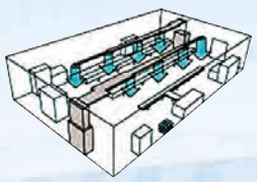
Note : [1]Combinations of outdoor units for High-COP, Standard, Space saving series can be selected. For details, please refer to *VRV* IV Catalog and Engineering data.
[2]For multiple connection, the outdoor unit multi connection piping kit (separately sold) is required.

Large airflow type for large spaces. Flexible interior design for each tenant.

The high static pressure type driven by the belt drive system allows the use of air discharge outlets in various shapes as well as long ducts. Highly flexible installation is possible.
Design with high maintainability that allows major services and maintenance services to be performed at the front.
A long-life filter (maintenance free up to one year*) is equipped as a standard accessory.
* 8 hr/day, 26 day/month. For dust concentration of 0.15 mg/m^3
A wide range of optional accessories are available such as high-efficiency filters.

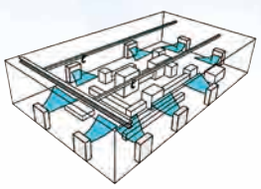
Large airflow type that fits for spacious areas such as factories and large stores.
Various installations can be supported from full-scale duct connection airflow to direct airflow that allows for easy installation.
Full-scale duct connection airflow allows even air conditioning for spacious areas.

Duct connection type



Adding the plenum chamber (option) allows for simple operation with direct airflow.
* Note that the operation sound increases by approximately 5 dB(A).

Direct air blow type



50Hz

		10	16	20	32	40
		28.0	**45.0**	**56.0**	**89.5**	**112**
		95,500	154,000	191,000	305,000	382,000
		24,100	38,700	48,200	77,000	96,300
	TWIN	FXVQ125NY1 × 2	FXVQ200NY1 × 2	FXVQ250NY1 × 2	FXVQ400NY1 × 2	FXVQ500NY1 × 2
		RXQ10TY1(E)	RXQ16TY1(E)	RXQ20TY1(E)	RXQ32TSY1(E)	RXQ40TSY1(E)
		KHRP26A33T	KHRP26A72T	KHRP26A72T	KHRP26A73T +KHRP26M73TP	KHRP26A73T +KHRP26M73TP
		–	–	–	BHFP22P100	BHFP22P100

50Hz

		20	32	40
		56.0	**89.5**	**112**
		191,000	305,000	382,000
		48,200	77,000	96,300
	FOUR CONNECT	FXVQ125NY1 × 4	FXVQ200NY1 × 4	FXVQ250NY1 × 4
		RXQ20TY1(E)	RXQ32TSY1(E)	RXQ40TSY1(E)
		KHRP26A33T, KHRP26A72T x 2	KHRP26A72T × 2, KHRP26A73T +KHRP26M73TP	KHRP26A72T, (KHRP26A73T +KHRP26M73TP) x 2
		–	BHFP22P100	BHFP22P100

Nice,
cool air in the factory
or in the cafeteria

INVERTER R-410A

FLOOR STANDING TYPE

DUCT CONNECTION TYPE

FXVQ500NY1

RXQ20TY1(E)

Flexible design

Enhanced varieties of factory modification and optional accessories

■ Standard model
▲ Factory modification

Rear suction		Option
Plenum chamber		Option Note 1
Static pressure up		▲
Output	ON / OFF	■
	Compressor ON	Option
	Fan ON	■
	Error	■
	Cool / Heat / Ventilate operation mode	Option
Input	ON / OFF	■
	Cool / Heat / Ventilate changeover	Option
	Temperature set	■
DIII-NET centralized control		■

Note:
[1]Operation sound will increase 5 dB when installed with plenum chamber, not suitable for restricted areas.
In the case of sound restricted areas, the Duct connection type is recommended.

Wide Operation Range

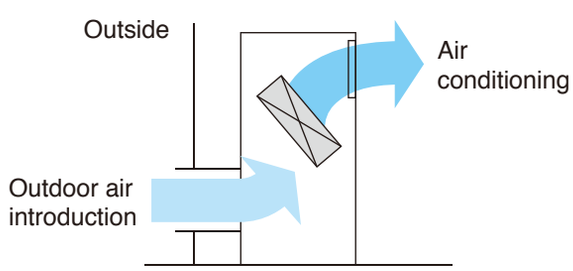
Covers a wide range of replacement and reconstruction needs.

Operation limits		
Cooling	Indoor temperature	14~25 °CWB
	Outdoor temperature	–5~43 °CDB

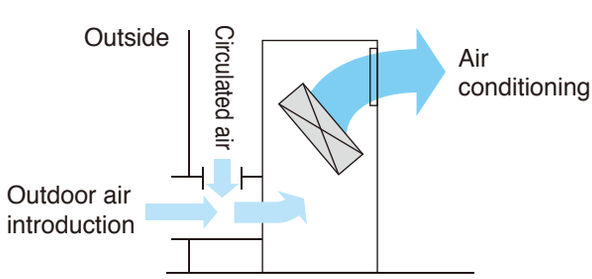
Outdoor Air Processing Mode

Outdoor air processing mode is useable as an outdoor-air processing air conditioner, only for pair connection.
*When using the unit as an outdoor-air processing unit, there are some restrictions.
Strictly follow the restrictions specified in the Engineering Data Book.

All-fresh (using outdoor air only) system



Return + Outdoor air mixed system



* Air introduced from the outside and circulated air must be mixed in the air conditioner primary side before introduction into the air conditioner.

※ Improper to use in temperature near outdoor temperature (Condensation may occur).

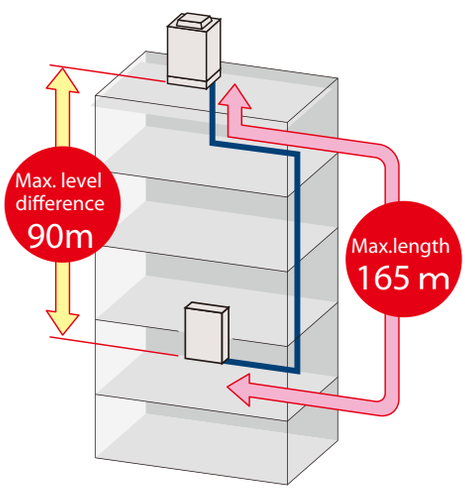
and high energy saving

Great installation flexibility

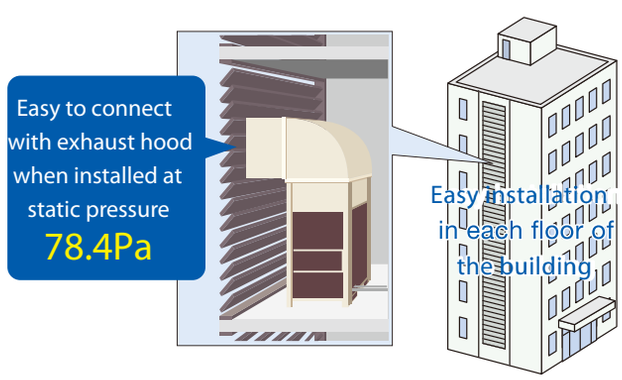
■A variety of refrigerant pipe length and level difference to cover a wide range of building scales

Max. length		165m
Max. level difference	Upper outdoor unit	90m
	Lower outdoor unit	90m

※ Max. level difference refer to VRV IV Engineering data.



■High static pressure outdoor unit increases installation flexibility.



Backup function increasing reliability (for model 24HP or above)

■Avoid air conditioning system breakdowns due to the equipment error stop.

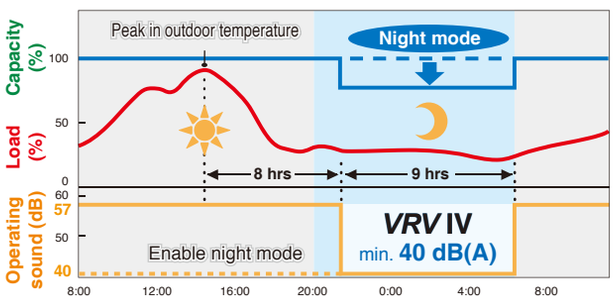
Just press the button twice

※ Emergency operating period is 8 hrs.
※ Applicable for multiple outdoor units system only. Otherwise, the emergency stop switch is available. (Except models 8HP and 10HP)

Nighttime quiet operation function

■Outdoor PC board automatically memorises the time when the peak outdoor temperature appears.
It will enable quiet operation mode after 8 h*1, and return to normal mode after it keeps for 9 h*2.

*1 8 h is the initial setting with 6 h or 10 h also available.
*2 9 h is the initial setting with 8 h or 10 h also available.

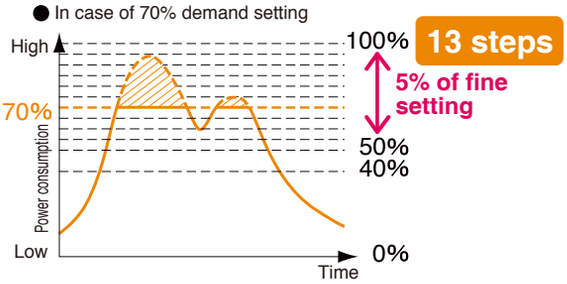


Notes: · This function is available in setting at site.
· The operating sound in quiet operation mode is the actual value measured by our company.
· The relationship of outdoor temperature (load) and time shown above is just an example.

Consideration for power saving [i-Demand function]

■Power consumption control can be finely set on 13 steps.
Power consumption peak is cut down to meet the usage circumstance.
Notes: · Settings on circuit board of outdoor unit is applicable.
· Option adaptor (DTA104A62) is necessary for each system.
· Group controller and DTA104A62 cannot be mounted to the same indoor unit at the same time.
· In case of using i-Demand function, group controller function is not available.

● In case of 70% demand setting



Centralized management system extension

■Centralized management can integrate with D-BACS system with high speed data transfer.

■Centralized control is now available when using with SkyAir Inv. model or VRV .

■Display of air filter cleaning times and self-inspection function for simple maintenance.

High efficiency integrated control
Intelligent Touch Manager
Lighting and ventilation control, energy use can be monitored and managed by one controller.
10.4 inch width touch screen

SPECIFICATIONS

INDOOR UNIT

Model Name			FXVQ125NY1	FXVQ200NY1	FXVQ250NY1
Power supply			3 phase, 380-415V, 50Hz	3 phase, 380-415V, 50Hz	3 phase, 380-415V, 50Hz
Cooling capacity [1, 2]		kcal/h	12,000	19,300	24,100
		Btu/h	47,800	76,400	95,500
		kW	14.0	22.4	28.0
Casing / Colour			Ivory white (5Y7.5/1)	Ivory white (5Y7.5/1)	Ivory white (5Y7.5/1)
Dimensions: (H×W×D)		mm	1,670×750×510	1,670×950×510	1,670×1,170×510
Coil (Cross fin coil)	Rows×Stages×Fin pitch	mm	3×32×2.0	3×32×2.0	3×32×2.0
	Face area	m²	0.419	0.560	0.715
Fan	Model		D13/4G2BH5Y1	D13/4G3AD5Y1	2D13/4G2BX5Y1
	Type		Sirocco fan	Sirocco fan	Sirocco fan
	Motor output × Number of units	W	750×1	1,500×1	1,500×1
	Airflow rate	m³/min	43	69	86
		cfm	1,518	2,436	3,036
	External static pressure [3]	Pa	152	217	281
	Drive		Belt drive	Belt drive	Belt drive
Temperature control			Microprocessor thermostat for cooling and heating	Microprocessor thermostat for cooling and heating	Microprocessor thermostat for cooling and heating
Air filter	Type		Long-life filter (anti-mould resin net)	Long-life filter (anti-mould resin net)	Long-life filter (anti-mould resin net)
Piping connections [4]	Liquid pipes	mm	ø9.5 (Brazing connection)	ø9.5 (Brazing connection)	ø9.5 (Brazing connection)
	Gas pipes	mm	ø15.9 (Brazing connection)	ø19.1 (Brazing connection)	ø22.2 (Brazing connection)
	Drain pipe		Rp1 (PS1B internal thread)	Rp1 (PS1B internal thread)	Rp1 (PS1B internal thread)
Mass		kg	118	144	169
Sound pressure level [5]		dB(A)	52	56	60
Safety devices			Fuse, Overcurrent relay	Fuse, Overcurrent relay	Fuse, Overcurrent relay
Refrigerant control			Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Connectable outdoor unit			R410A *VRV* Series	R410A *VRV* Series	R410A *VRV* Series
Standard accessories			Connection pipe. Drain plug cap. Insulation for drain plug. Clamp. Bolt. Nut. Operation manual. Installation manual.	Connection pipe. Drain plug cap. Insulation for drain plug. Clamp. Bolt. Nut. Operation manual. Installation manual.	Connection pipe. Drain plug cap. Insulation for drain plug. Clamp. Bolt. Nut. Operation manual. Installation manual.
Drawing No.			C: 3D095077		

Model Name			FXVQ400NY1	FXVQ500NY1
Power supply			3 phase, 380-415V, 50Hz	3 phase, 380-415V, 50Hz
Cooling capacity [1, 2]		kcal/h	38,700	48,200
		Btu/h	154,000	191,000
		kW	45.0	56.0
Casing / Colour			Ivory white (5Y7.5/1)	Ivory white (5Y7.5/1)
Dimensions: (H×W×D)		mm	1,900×1,170×720	1,900×1,470×720
Coil (Cross fin coil)	Rows×Stages×Fin pitch	mm	3×44×2.0	3×44×2.0
	Face area	m²	0.945	1.237
Fan	Model		D2E1AG7Y1	2D2E1BB7Y1
	Type		Sirocco fan	Sirocco fan
	Motor output × Number of units	W	3,700×1	3,700×1
	Airflow rate	m³/min	134	165
		cfm	4,730	5,825
	External static pressure [3]	Pa	420	142
	Drive		Belt drive	Belt drive
Temperature control			Microprocessor thermostat for cooling and heating	Microprocessor thermostat for cooling and heating
Air filter	Type		Long-life filter (anti-mould resin net)	Long-life filter (anti-mould resin net)
Piping connections [4]	Liquid pipes	mm	ø12.7 (Brazing connection)	ø15.9 (Brazing connection)
	Gas pipes	mm	ø28.6 (Brazing connection)	ø28.6 (Brazing connection)
	Drain pipe		Rp1 (PS1B internal thread)	Rp1 (PS1B internal thread)
Mass		kg	236	281
Sound pressure level [5]		dB(A)	65	62
Safety devices			Fuse, Overcurrent relay	Fuse, Overcurrent relay
Refrigerant control			Electronic expansion valve	Electronic expansion valve
Connectable outdoor unit			R410A *VRV* Series	R410A *VRV* Series
Standard accessories			Connection pipe. Drain plug cap. Insulation for drain plug. Clamp. Bolt. Nut. Operation manual. Installation manual.	Connection pipe. Drain plug cap. Insulation for drain plug. Clamp. Bolt. Nut. Operation manual. Installation manual.
Drawing No.			C: 3D095077	

Note : [1]Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5 m, level difference: 0 m.
[2]Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
[3]The value is the external static pressure with standard pulley.
[4]Both liquid pipe and gas pipe need insulation work.
[5]Sound level : measured when the air discharge outlet duct (2 m) is attached (anechoic chamber conversion value).
It increases by approximately 5 dB(A) when the plenum chamber is installed to deliver direct airflow.
[6]Refer to **Electric Characteristics** for the power input.

OUTDOOR UNIT

Model Name			RXQ8TY1(E)	RXQ10TY1(E)
Power Supply			3 phase, 380-415V, 50Hz	3 phase, 380-415V, 50Hz
Cooling Capacity [1]		kcal/h	19,300	24,100
		Btu/h	76,400	95,500
		kW	22.4	28.0
Casing Color			Ivory white (5Y7.5/1)	Ivory white (5Y7.5/1)
Dimensions: (H×W×D)		mm	1,657×930×765	1,657×930×765
Heat Exchanger			Cross fin coil	Cross fin coil
Comp.	Type		Hermetically sealed scroll type	Hermetically sealed scroll type
	Displacement	m³/h	16.24	24.37
	Number of Revolutions	r/min	7,668	7,650
	Motor Output× Number of Units	kW	3.4×1	4.1×1
	Starting Method		Soft start	Soft start
Fan	Type		Propeller fan	Propeller fan
	Motor Output	kW	0.55×1	0.55×1
	Airflow Rate	m³/min	157	165
	Drive		Direct drive	Direct drive
Connecting Pipes	Liquid Pipe	mm	ø9.5 C1220T (Brazing connection)	ø9.5 C1220T (Brazing connection)
	Gas Pipe	mm	ø19.1 C1220T (Brazing connection)	ø22.2 C1220T (Brazing connection)
Mass		kg	185	195
Sound pressure level [2]		dB(A)	56	57
Safety Devices			High pressure switch, Fan driver overload protector, Over current relay, Inverter overload protector	High pressure switch, Fan driver overload protector, Over current relay, Inverter overload protector
Capacity Control		%	20-100	16-100
Refrigerant	Refrigerant Name		R410A	R410A
	Charge	kg	5.9	6.0
	Control		Electronic expansion valve	Electronic expansion valve
Refrigerator Oil			Refer to the nameplate of compressor	Refer to the nameplate of compressor
Standard Accessories			Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps
Drawing No.			C: 4D084877A	C: 4D084980A

Model Name			RXQ16TY1(E)	RXQ20TY1(E)
Power Supply			3 phase, 380-415V, 50Hz	3 phase, 380-415V, 50Hz
Cooling Capacity [1]		kcal/h	38,700	48,200
		Btu/h	154,000	191,000
		kW	45.0	56.0
Casing Color			Ivory white (5Y7.5/1)	Ivory white (5Y7.5/1)
Dimensions: (H×W×D)		mm	1,657×1,240×765	1,657×1,240×765
Heat Exchanger			Cross fin coil	Cross fin coil
Comp.	Type		Hermetically sealed scroll type	Hermetically sealed scroll type
	Displacement	m³/h	16.27+17.54	16.90+26.28
	Number of Revolutions	r/min	7,680+8,280	7,980+8,250
	Motor Output× Number of Units	kW	(3.6×1)+(3.7×1)	(4.6×1)+(5.5×1)
	Starting Method		Soft start	Soft start
Fan	Type		Propeller fan	Propeller fan
	Motor Output	kW	0.75×2	0.75×2
	Airflow Rate	m³/min	233	268
	Drive		Direct drive	Direct drive
Connecting Pipes	Liquid Pipe	mm	ø12.7 C1220T (Brazing connection)	ø15.9 C1220T (Brazing connection)
	Gas Pipe	mm	ø28.6 C1220T (Brazing connection)	ø28.6 C1220T (Brazing connection)
Mass		kg	285	320
Sound pressure level [2]		dB(A)	61	65
Safety Devices			High pressure switch, Fan driver overload protector, Over current relay, Inverter overload protector	High pressure switch, Fan driver overload protector, Over current relay, Inverter overload protector
Capacity Control		%	10-100	8-100
Refrigerant	Refrigerant Name		R410A	R410A
	Charge	kg	10.4	11.8
	Control		Electronic expansion valve	Electronic expansion valve
Refrigerator Oil			Refer to the nameplate of compressor	Refer to the nameplate of compressor
Standard Accessories			Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps
Drawing No.			C: 4D084977A	C: 4D084880A

Note : [1]Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5 m, level difference: 0 m.
[2]Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5m.
During actual operation, these values are normally somewhat higher as a result of ambient conditions.
[3]Refer to **Capacity Tables** for the power input (PI) (Compressor + Outdoor fan motor).
[4]Models with (E) feature components treated for heat and rust corrosion resistance, such as external panels, fan motor, and electric component box, in addition to the fins of the heat exchanger. These models are designed specifically for use in areas which are subject to salt damage and atmospheric pollution. Please contact Daikin for more information.

SPECIFICATIONS

OUTDOOR UNIT

Model Name (Combination Unit)			RXQ24TSY1(E)	RXQ30TSY1(E)	RXQ32TSY1(E)
Model Name (Independent Unit)			RXQ12TY1(E)+RXQ12TY1(E)	RXQ12TY1(E)+RXQ18TY1(E)	RXQ12TY1(E)+RXQ20TY1(E)
Power Supply			3 phase, 380-415V, 50Hz	3 phase, 380-415V, 50Hz	3 phase, 380-415V, 50Hz
Cooling Capacity [1]		kcal/h	57,600	71,800	77,000
		Btu/h	229,000	285,000	305,000
		kW	67.0	83.5	89.5
Casing Color			Ivory white (5Y7.5/1)	Ivory white (5Y7.5/1)	Ivory white (5Y7.5/1)
Dimensions: (H×W×D)		mm	(1,657×930×765)+(1,657×930×765)	(1,657×930×765)+(1,657×1,240×765)	(1,657×930×765)+(1,657×1,240×765)
Heat Exchanger			Cross fin coil	Cross fin coil	Cross fin coil
Comp.	Type		Hermetically sealed scroll type	Hermetically sealed scroll type	Hermetically sealed scroll type
	Displacement	m^3/h	(24.68)+(24.68)	(24.68)+(16.27+17.54)	(24.68)+(16.90+26.28)
	Number of Revolutions	r/min	(7,746)+(7,746)	(7,746)+(7,680+8,280)	(7,746)+(7,980+8,250)
	Motor Output× Number of Units	kW	(5.2×1)+(5.2×1)	(5.2×1)+(4.4×1)+(4.0×1)	(5.2×1)+(4.6×1)+(5.5×1)
	Starting Method		Soft start	Soft start	Soft start
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output	kW	(0.55×1)+(0.55×1)	(0.55×1)+(0.75×2)	(0.55×1)+(0.75×2)
	Airflow Rate	m^3/min	178+178	178+233	178+268
	Drive		Direct drive	Direct drive	Direct drive
Connecting Pipes	Liquid Pipe	mm	ø15.9 C1220T (Brazing connection)	ø19.1 C1220T (Brazing connection)	ø19.1 C1220T (Brazing connection)
	Gas Pipe	mm	ø34.9 C1220T (Brazing connection)	ø34.9 C1220T (Brazing connection)	ø34.9 C1220T (Brazing connection)
Mass		kg	195+195	195+285	195+320
Sound pressure level [2]		dB(A)	62	64	66
Safety Devices			High pressure switch, Fan driver overload protector, Over current relay, Inverter overload protector	High pressure switch, Fan driver overload protector, Over current relay, Inverter overload protector	High pressure switch, Fan driver overload protector, Over current relay, Inverter overload protector
Capacity Control		%	8-100	6-100	5-100
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Charge	kg	6.3+6.3	6.3+10.5	6.3+11.8
	Control		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Refrigerator Oil			Refer to the nameplate of compressor	Refer to the nameplate of compressor	Refer to the nameplate of compressor
Standard Accessories			Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps
Drawing No.					

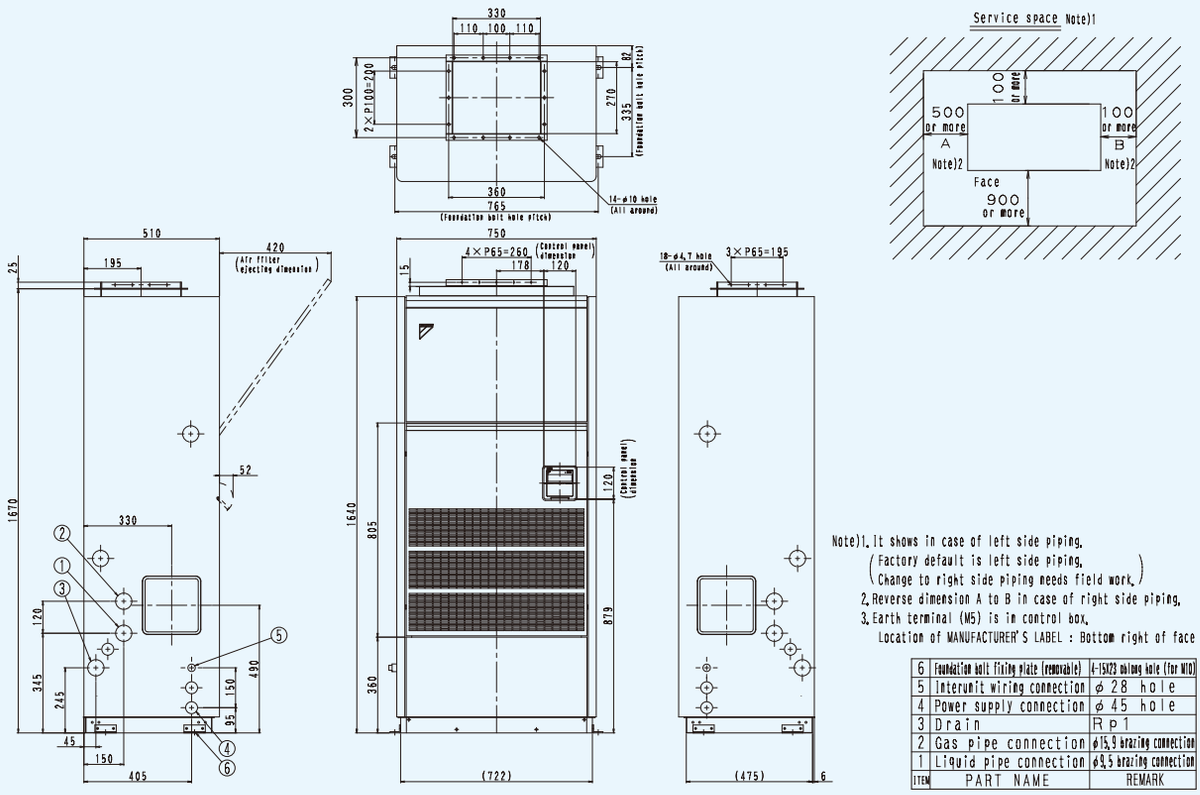
Model Name (Combination Unit)			RXQ40TSY1(E)	RXQ48TSY1(E)	RXQ50TSY1(E)
Model Name (Independent Unit)			RXQ20TY1(E)+RXQ20TY1(E)	RXQ12TY1(E)+RXQ18TY1(E)+RXQ18TY1(E)	RXQ12TY1(E)+RXQ18TY1(E)+RXQ20TY1(E)
Power Supply			3 phase, 380-415V, 50Hz	3 phase, 380-415V, 50Hz	3 phase, 380-415V, 50Hz
Cooling Capacity [1]		kcal/h	96,300	115,000	120,000
		Btu/h	382,000	457,000	478,000
		kW	112	134	140
Casing Color			Ivory white (5Y7.5/1)	Ivory white (5Y7.5/1)	Ivory white (5Y7.5/1)
Dimensions: (H×W×D)		mm	(1,657×1,240×765)+(1,657×1,240×765)	(1,657×930×765)+(1,657×1,240×765) +(1,657×1,240×765)	(1,657×930×765)+(1,657×1,240×765) +(1,657×1,240×765)
Heat Exchanger			Cross fin coil	Cross fin coil	Cross fin coil
Comp.	Type		Hermetically sealed scroll type	Hermetically sealed scroll type	Hermetically sealed scroll type
	Displacement	m^3/h	(16.90+26.28)+(16.90+26.28)	(24.68)+(16.27+17.54)+(16.27+17.54)	(24.68)+(16.27+17.54)+(16.90+26.28)
	Number of Revolutions	r/min	(7,980+8,250)+(7,980+8,250)	(7,746)+(7,680+8,280)+(7,680+8,280)	(7,746)+(7,680+8,280)+(7,980+8,250)
	Motor Output× Number of Units	kW	(4.6×1)+(5.5×1)+(4.6×1)+(5.5×1)	(5.2×1)+(4.4×1)+(4.0×1)+(4.4×1) +(4.0×1)	(5.2×1)+(4.4×1)+(4.0×1)+(4.6×1) +(5.5×1)
	Starting Method		Soft start	Soft start	Soft start
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output	kW	(0.75×2)+(0.75×2)	(0.55×1)+(0.75×2)+(0.75×2)	(0.55×1)+(0.75×2)+(0.75×2)
	Airflow Rate	m^3/min	268+268	178+233+233	178+233+268
	Drive		Direct drive	Direct drive	Direct drive
Connecting Pipes	Liquid Pipe	mm	ø19.1 C1220T (Brazing connection)	ø19.1 C1220T (Brazing connection)	ø19.1 C1220T (Brazing connection)
	Gas Pipe	mm	ø41.3 C1220T (Brazing connection)	ø41.3 C1220T (Brazing connection)	ø41.3 C1220T (Brazing connection)
Mass		kg	320+320	195+285+285	195+285+320
Sound pressure level [2]		dB(A)	68	66	67
Safety Devices			High pressure switch, Fan driver overload protector, Over current relay, Inverter overload protector	High pressure switch, Fan driver overload protector, Over current relay, Inverter overload protector	High pressure switch, Fan driver overload protector, Over current relay, Inverter overload protector
Capacity Control		%	4-100	4-100	3-100
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Charge	kg	11.8+11.8	6.3+10.5+10.5	6.3+10.5+11.8
	Control		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Refrigerator Oil			Refer to the nameplate of compressor	Refer to the nameplate of compressor	Refer to the nameplate of compressor
Standard Accessories			Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps
Drawing No.					

Note : [1]Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5 m, level difference: 0 m.
[2]Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5m.
During actual operation, these values are normally somewhat higher as a result of ambient conditions.
[3]Refer to **Capacity Tables** for the power input (PI) (Compressor + Outdoor fan motor).
[4]Models with (E) feature components treated for heat and rust corrosion resistance, such as external panels, fan motor, and electric component box, in addition to the fins of the heat exchanger. These models are designed specifically for use in areas which are subject to salt damage and atmospheric pollution. Please contact Daikin for more information.

DIMENSIONS (Unit: mm)

INDOOR UNIT

FXVQ125NY1

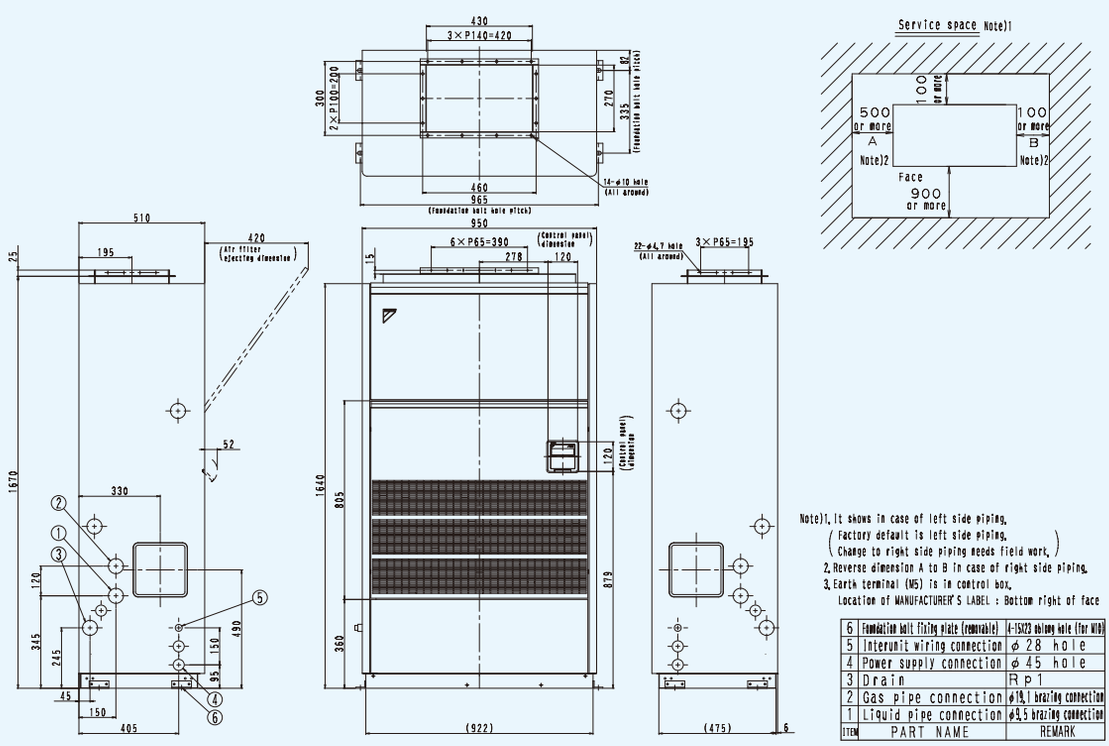


Note)1, It shows in case of left side piping.
(Factory default is left side piping.
Change to right side piping needs field work.)
2, Reverse dimension A to B in case of right side piping.
3, Earth terminal (M5) is in control box.
Location of MANUFACTURER'S LABEL : Bottom right of face

ITEM	PART NAME	REMARK
6	Foundation bolt fixing plate (removable)	4-15X23 oblong hole (for M10)
5	Interunit wiring connection	φ 28 hole
4	Power supply connection	φ 45 hole
3	Drain	R p 1
2	Gas pipe connection	φ15,9 brazing connection
1	Liquid pipe connection	φ9,5 brazing connection

3D081764B

FXVQ200NY1



Note)1, It shows in case of left side piping.
(Factory default is left side piping.
Change to right side piping needs field work.)
2, Reverse dimension A to B in case of right side piping.
3, Earth terminal (M5) is in control box.
Location of MANUFACTURER'S LABEL : Bottom right of face

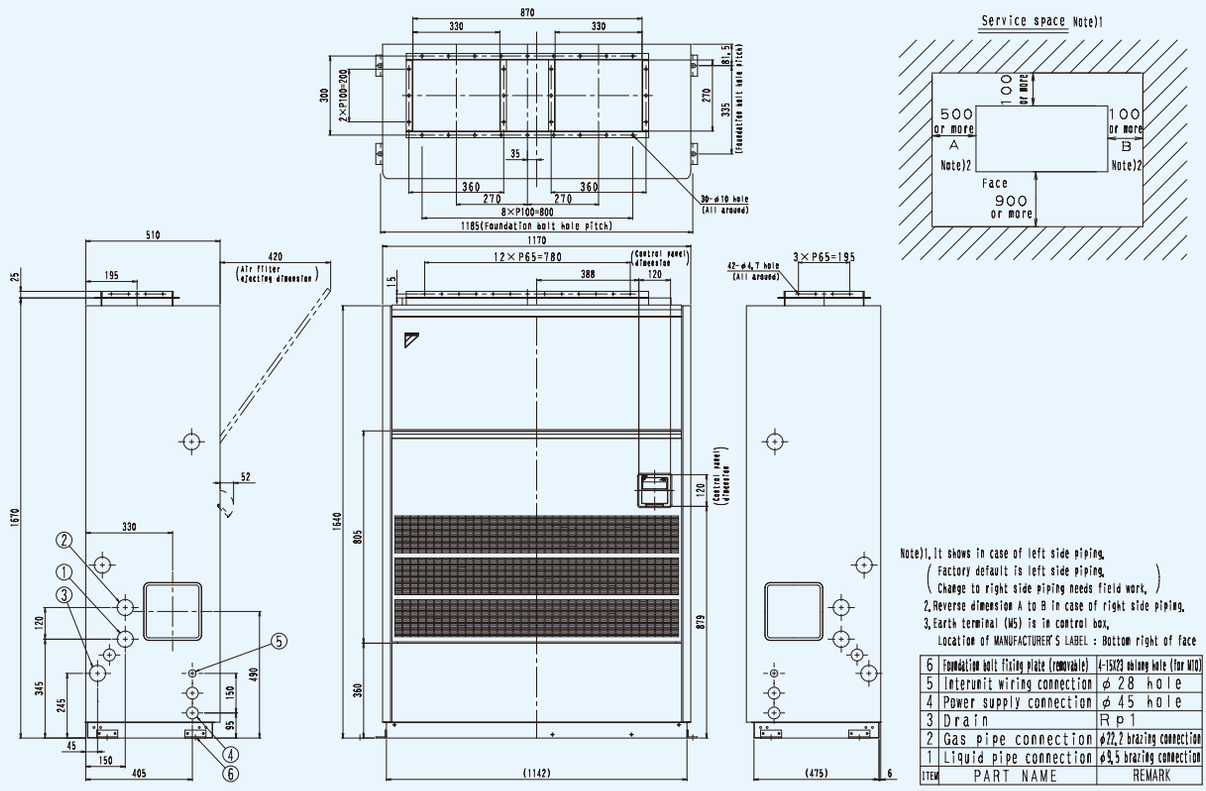
ITEM	PART NAME	REMARK
6	Foundation bolt fixing plate (removable)	4-15X23 oblong hole (for M10)
5	Interunit wiring connection	φ 28 hole
4	Power supply connection	φ 45 hole
3	Drain	R p 1
2	Gas pipe connection	φ15,9 brazing connection
1	Liquid pipe connection	φ9,5 brazing connection

3D081765B

DIMENSIONS (Unit: mm)

INDOOR UNIT

FXVQ250NY1

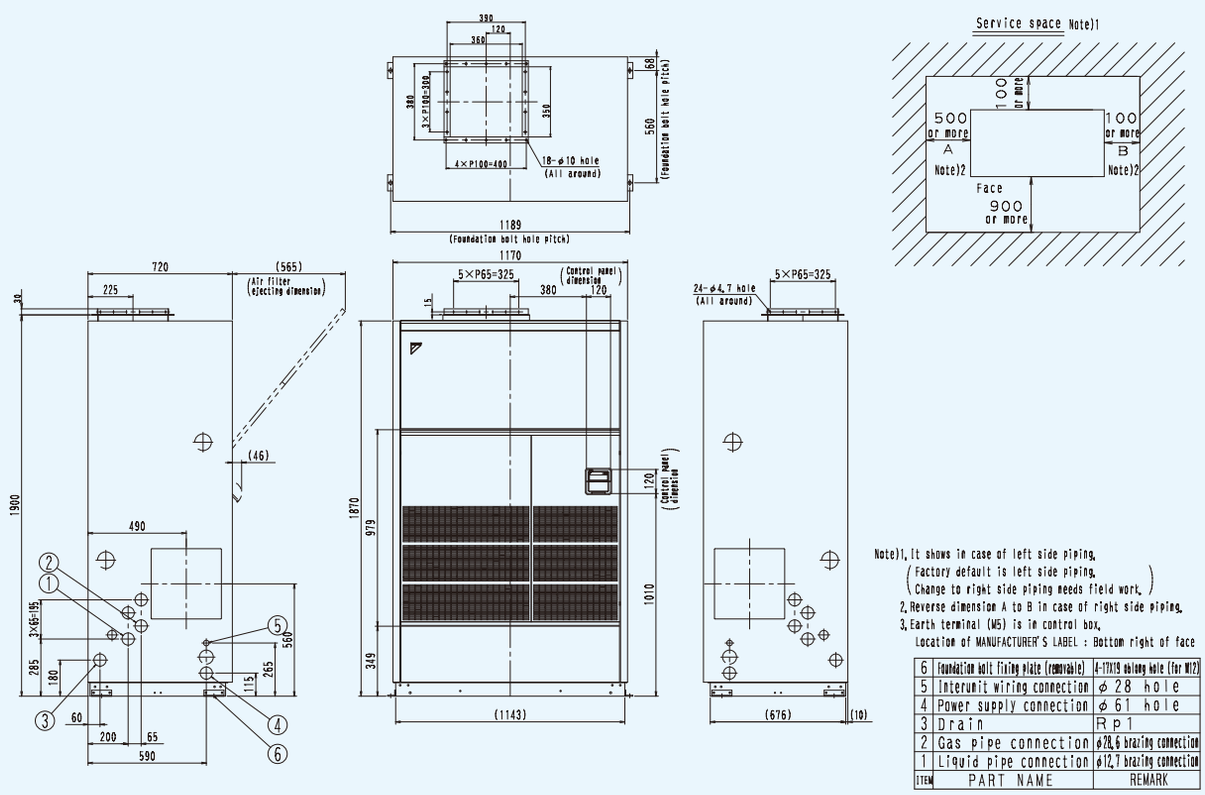


Note)1, It shows in case of left side piping.
(Factory default is left side piping.
Change to right side piping needs field work.)
2, Reverse dimension A to B in case of right side piping.
3, Earth terminal (M5) is in control box.
Location of MANUFACTURER'S LABEL : Bottom right of face

ITEM	PART NAME	REMARK
6	Foundation bolt fixing plate (removable)	4-15X23 oblong hole (for M10)
5	Interunit wiring connection	φ 28 hole
4	Power supply connection	φ 45 hole
3	Drain	R p 1
2	Gas pipe connection	φ22,2 brazing connection
1	Liquid pipe connection	φ9,5 brazing connection

3D081766B

FXVQ400NY1



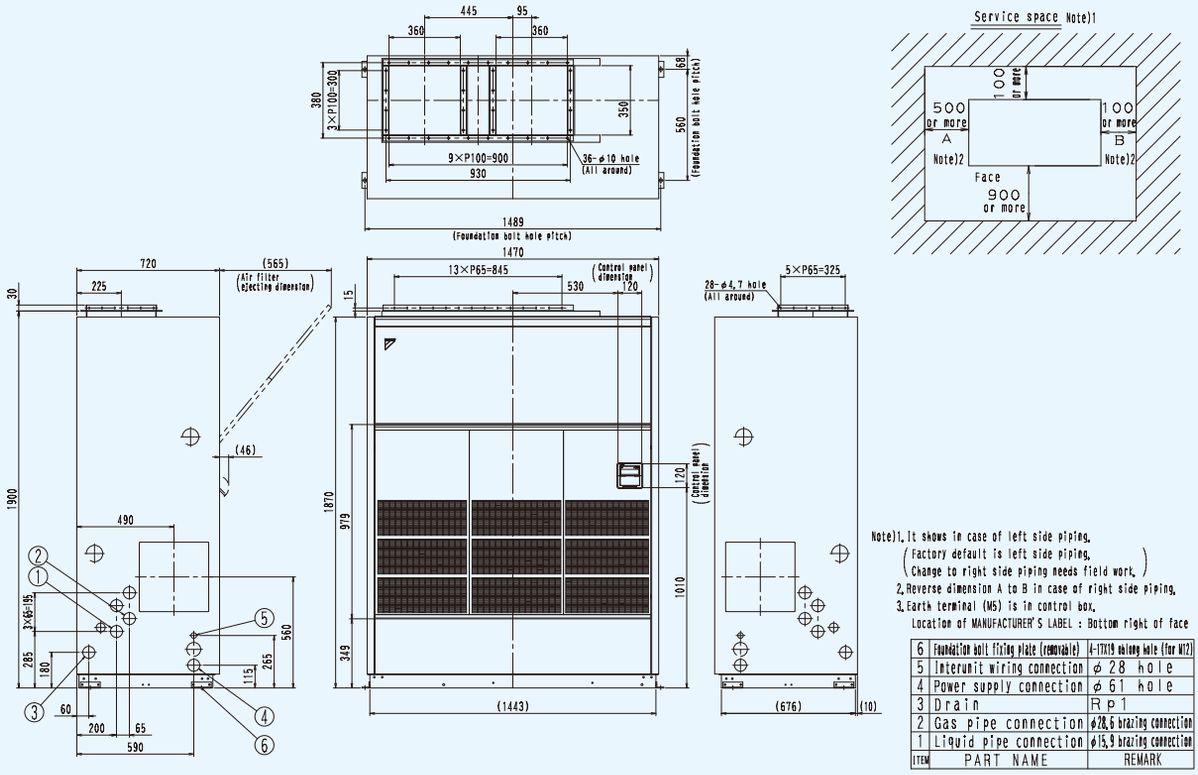
Note)1, It shows in case of left side piping.
(Factory default is left side piping.
Change to right side piping needs field work.)
2, Reverse dimension A to B in case of right side piping.
3, Earth terminal (M5) is in control box.
Location of MANUFACTURER'S LABEL : Bottom right of face

ITEM	PART NAME	REMARK
6	Foundation bolt fixing plate (removable)	4-17X19 oblong hole (for M12)
5	Interunit wiring connection	φ 28 hole
4	Power supply connection	φ 61 hole
3	Drain	R p 1
2	Gas pipe connection	φ28,6 brazing connection
1	Liquid pipe connection	φ12,7 brazing connection

3D081767B

INDOOR UNIT / OUTDOOR UNIT

FXVQ500NY1

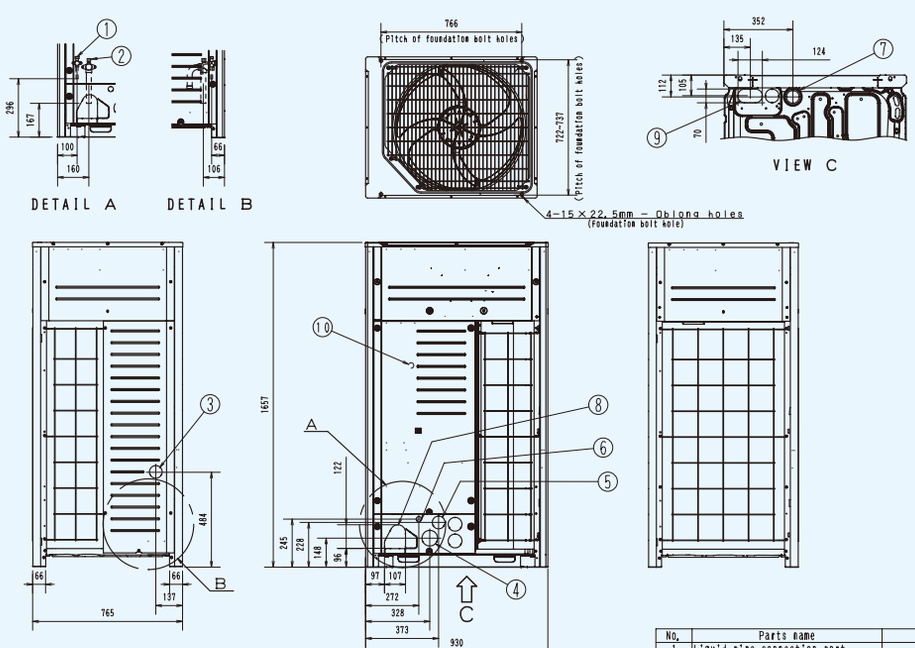


Note)1. It shows in case of left side piping.
(Factory default is left side piping,
Change to right side piping needs field work.)
2. Reverse dimension A to B in case of right side piping.
3. Earth terminal (M5) is in control box.
Location of MANUFACTURER'S LABEL : Bottom right of face

ITEM	PART NAME	REMARK
6	Foundation bolt fixing plate (removable)	(+17X19 oblong hole (for M12)
5	Interunit wiring connection	φ 28 hole
4	Power supply connection	φ 61 hole
3	Drain	Rp1
2	Gas pipe connection	φ28.6 brazing connection
1	Liquid pipe connection	φ15.9 brazing connection

3D085649A

RXQ8TY1
RXQ10TY1



NOTES:
1. DETAIL A AND DETAIL B INDICATE THE DIMENSIONS AFTER FIXING THE ATTACHED PIPING.
2. ITEMS 3 TO 9 KNOCK OUT HOLE.
3. GAS PIPE:
Φ19.1 BRAZING CONNECTION: RX8TY1
Φ22.2 BRAZING CONNECTION: RXQ10TY1

LIQUID:
Φ9.5 BRAZING CONNECTION: RXQ8・10TY1

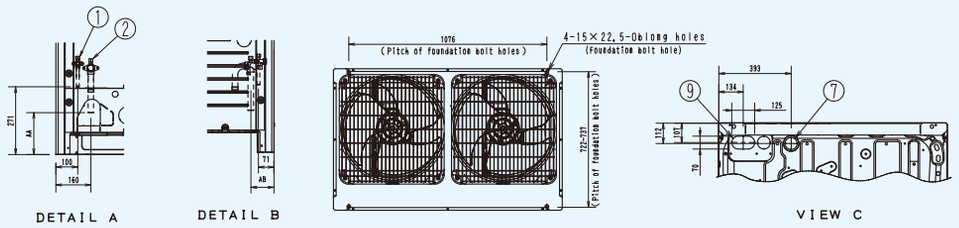
No.	Parts name	Remarks
1	Liquid pipe connection port	See note 3.
2	Gas pipe connection port	See note 3.
3	Power cord routing hole (side)	Φ65
4	Power cord routing hole (front)	Φ80
5	Power cord routing hole (front)	Φ65
6	Power cord routing hole (front)	Φ27
7	Power cord routing hole (bottom)	Φ65
8	Pipe routing hole (front)	
9	Pipe routing hole (bottom)	
10	Grounding terminal	Inside of switch box (M8)

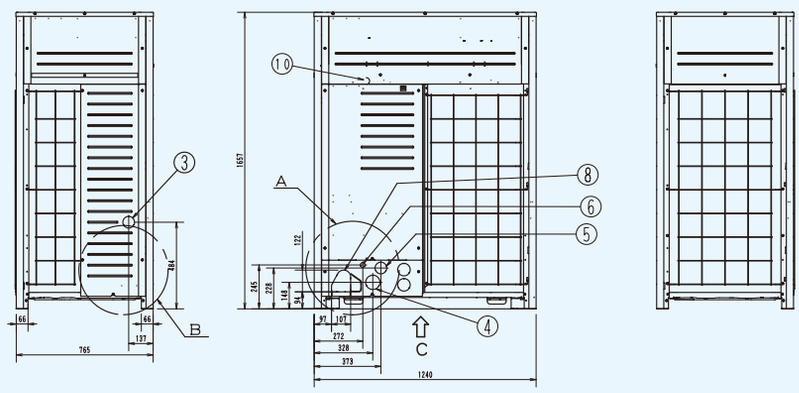
C: 3D084511C

DIMENSIONS (Unit: mm)

OUTDOOR UNIT

RXQ16TY1
RXQ20TY1





MODEL	AA	AB
RXQ16TY1	171	106
RXQ20TY1	161	101

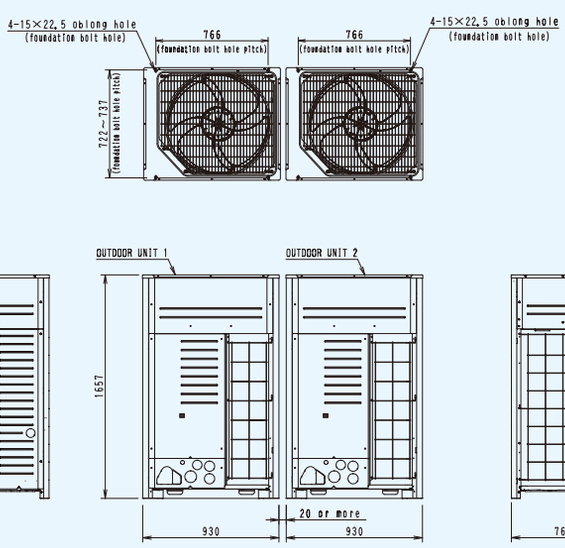
No.	Parts name	Remarks
1	Liquid pipe connection port	See note 3.
2	Gas pipe connection port	See note 3.
3	Power cord routing hole (side)	Φ65
4	Power cord routing hole (front)	Φ80
5	Power cord routing hole (front)	Φ65
6	Power cord routing hole (front)	Φ27
7	Power cord routing hole (bottom)	Φ65
8	Pipe routing hole (front)	
9	Pipe routing hole (bottom)	
10	Grounding terminal	Inside of switch box (M8)

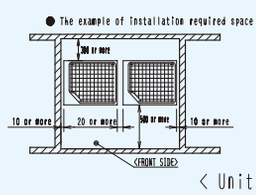
NOTES:
1. DETAIL A AND DETAIL B INDICATE THE DIMENSIONS AFTER FIXING THE ATTACHED PIPING.
2. ITEMS 3 TO 9: KNOCK OUT HOLE.
3. GAS PIPE:
   Φ28.6 BRAZING CONNECTION: RXQ16・20TY1

   LIQUID PIPE:
   Φ12.7 BRAZING CONNECTION: RXQ16TY1
   Φ15.9 BRAZING CONNECTION: RXQ20TY1

C: 3D084507C

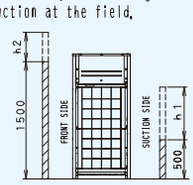
RXQ24TSY1





〈 Unit : mm 〉

Note: 1. For the wall height of the example for this installation required space are,
Front side: 1500 mm
Suction side: 500 mm
Lateral side: No height limitation
This installation required space example has the standard of cooling operation at outdoor air temperature 35℃.
In case the temperature is over 35℃ of designed outdoor air temperature, or there is much heat load on all outdoor unit which its operation load is over the maximum capacity, make sure to enlarge the suction side space to be more than the value details which specified in drawing.
2. In case of it is over the wall height as specified, make sure to add each dimension h2/2, h1/2 or more to the front side, suction side space as below diagram.
3. When installation, select the most suitable pattern of installtion service space adapt to field space by considering pathway, ventilation.
4. For front side space, make sure to install by considering the neccesary space for refrigerant piping construction at the field.

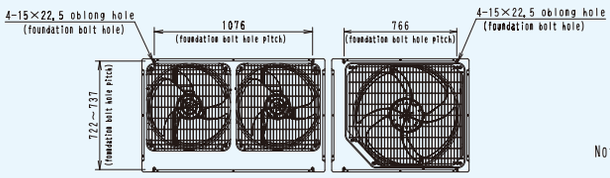


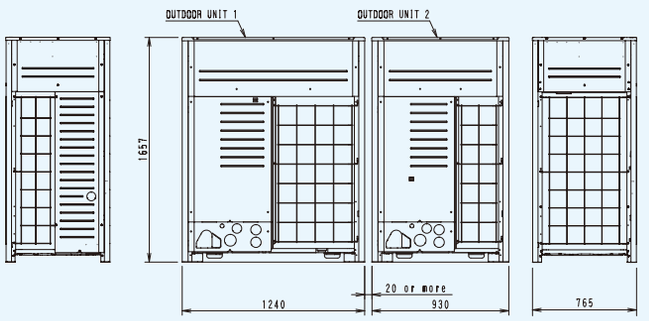
System name	Outdoor unit 1	DWG. No	Outdoor unit 2	DWG. No
RXQ24TSY1	RXQ12TY1	3D084511	RXQ12TY1	3D084511

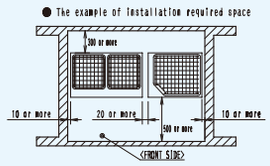
C: 3D084457B

OUTDOOR UNIT

RXQ30TSY1
RXQ32TSY1

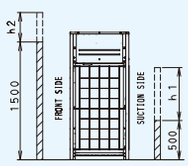






〈 Unit : mm 〉

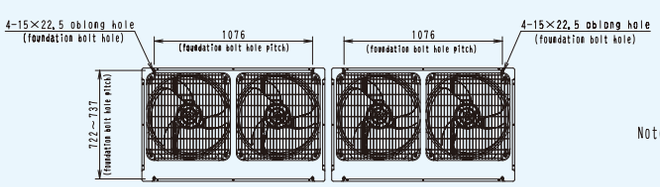
Note: 1. For the wall height of the example for this installation required space are,
Front side: 1500 mm
Suction side: 500 mm
Lateral side: No height limitation
This installation required space example has the standard of cooling operation at outdoor air temperature 35℃.
In case the temperature is over 35℃ of designed outdoor air temperature, or there is much heat load on all outdoor unit which its operation load is over the maximum capacity, make sure to enlarge the suction side space to be more than the value details which specified in drawing.
2. In case of it is over the wall height as specified, make sure to add each dimension h2/2, h1/2 or more to the front side, suction side space as below diagram.
3. When installation, select the most suitable pattern of installtion service space adapt to field space by considering pathway, ventilation.
4. For front side space, make sure to install by considering the neccesary space for refrigerant piping construction at the field.

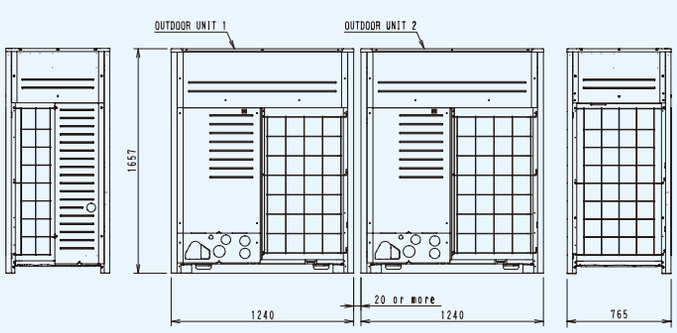


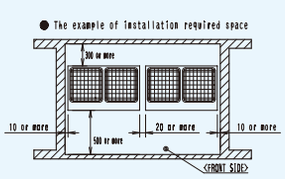
System name	Outdoor unit 1	DWG. No	Outdoor unit 2	DWG. No
RXQ30TSY1	RXQ18TY1	3D084507	RXQ12TY1	3D084511
RXQ32TSY1	RXQ20TY1	3D084507	RXQ12TY1	3D084511

C: 3D084458B

RXQ40TSY1

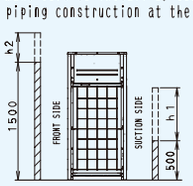






〈 Unit : mm 〉

Note: 1. For the wall height of the example for this installation required space are,
Front side: 1500 mm
Suction side: 500 mm
Lateral side: No height limitation
This installation required space example has the standard of cooling operation at outdoor air temperature 35℃.
In case the temperature is over 35℃ of designed outdoor air temperature, or there is much heat load on all outdoor unit which its operation load is over the maximum capacity, make sure to enlarge the suction side space to be more than the value details which specified in drawing.
2. In case of it is over the wall height as specified, make sure to add each dimension h2/2, h1/2 or more to the front side, suction side space as below diagram.
3. When installation, select the most suitable pattern of installtion service space adapt to field space by considering pathway, ventilation.
4. For front side space, make sure to install by considering the neccesary space for refrigerant piping construction at the field.

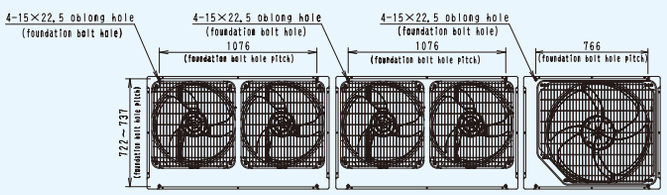


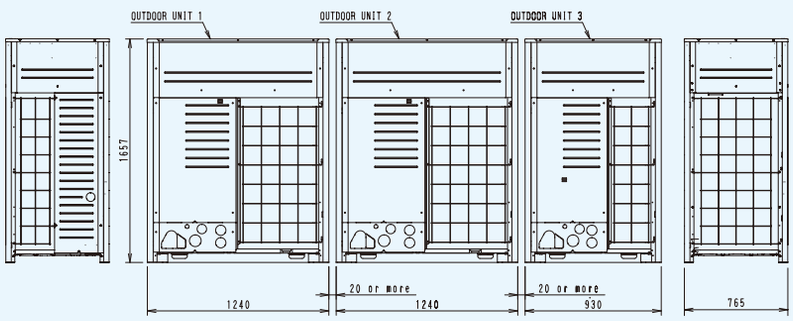
System name	Outdoor unit 1	DWG. No	Outdoor unit 2	DWG. No
RXQ40TSY1	RXQ20TY1	3D084507	RXQ20TY1	3D084507

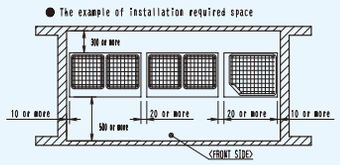
C: 3D084462B

OUTDOOR UNIT

RXQ48TSY1

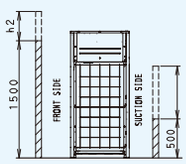






〈 Unit : mm 〉

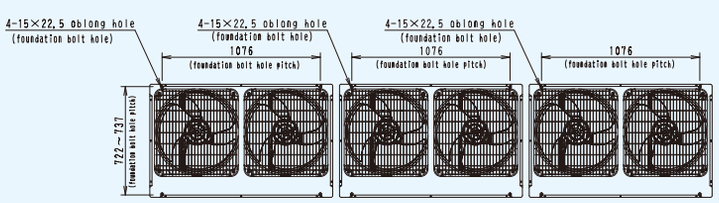
Note: 1. For the wall height of the example for this installation required space are,
Front side: 1500 mm
Suction side: 500 mm
Lateral side: No height limitation
This installation required space example has the standard of cooling operation at outdoor air temperature 35℃.
In case the temperature is over 35℃ of designed outdoor air temperature, or there is much heat load on all outdoor unit which its operation load is over the maximum capacity, make sure to enlarge the suction side space to be more than the value details which specified in drawing.
2. In case of it is over the wall height as specified, make sure to add each dimension h2/2, h1/2 or more to the front side, suction side space as below diagram.
3. When installation, select the most suitable pattern of installtion service space adapt to field space by considering pathway, ventilation.
4. For front side space, make sure to install by considering the neccesary space for refrigerant piping construction at the field.

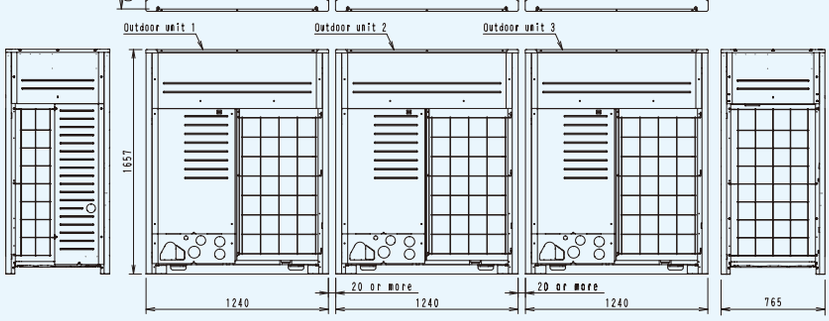


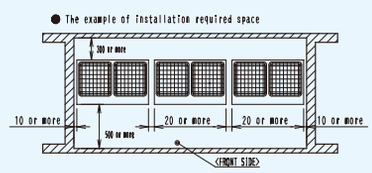
System name	Outdoor unit 1	DWG. No	Outdoor unit 2	DWG. No	Outdoor unit 3	DWG. No
RXQ48TSY1	RXQ18TY1	3D084507	RXQ18TY1	3D084507	RXQ12TY1	3D084511

C: 3D084464B

RXQ60TNY1

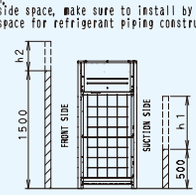






〈 Unit : mm 〉

Note: 1. For the wall height of the example for this installation required space are,
Front side: 1500 mm
Suction side: 500 mm
Lateral side: No height limitation
This installation required space example has the standard of cooling operation at outdoor air temperature 35℃.
In case the temperature is over 35℃ of designed outdoor air temperature, or there is much heat load on all outdoor unit which its operation load is over the maximum capacity, make sure to enlarge the suction side space to be more than the value details which specified in drawing.
2. In case of it is over the wall height as specified, make sure to add each dimension h2/2, h1/2 or more to the front side, suction side space as below diagram.
3. When installation, select the most suitable pattern of installtion service space adapt to field space by considering pathway, ventilation.
4. For front side space, make sure to install by considering the neccesary space for refrigerant piping construction at the field.



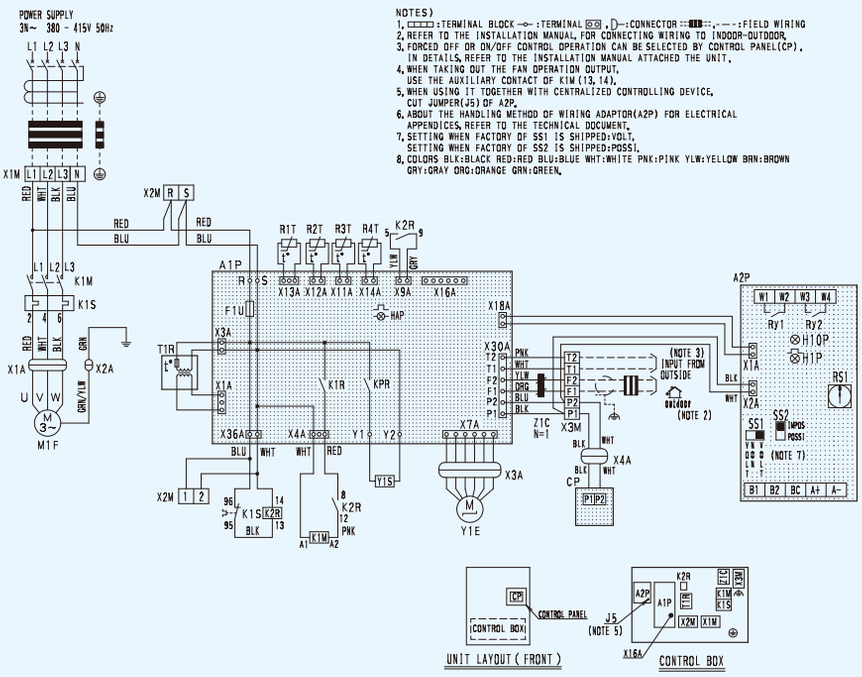
System name	Outdoor unit 1	DWG. No	Outdoor unit 2	DWG. No	Outdoor unit 3	DWG. No
RXQ60TNY1	RXQ20TY1	3D084507	RXQ20TY1	3D084507	RXQ20TY1	3D084507

C: 3D084465B

INDOOR UNIT

FXVQ125NY1
FXVQ200NY1
FXVQ250NY1

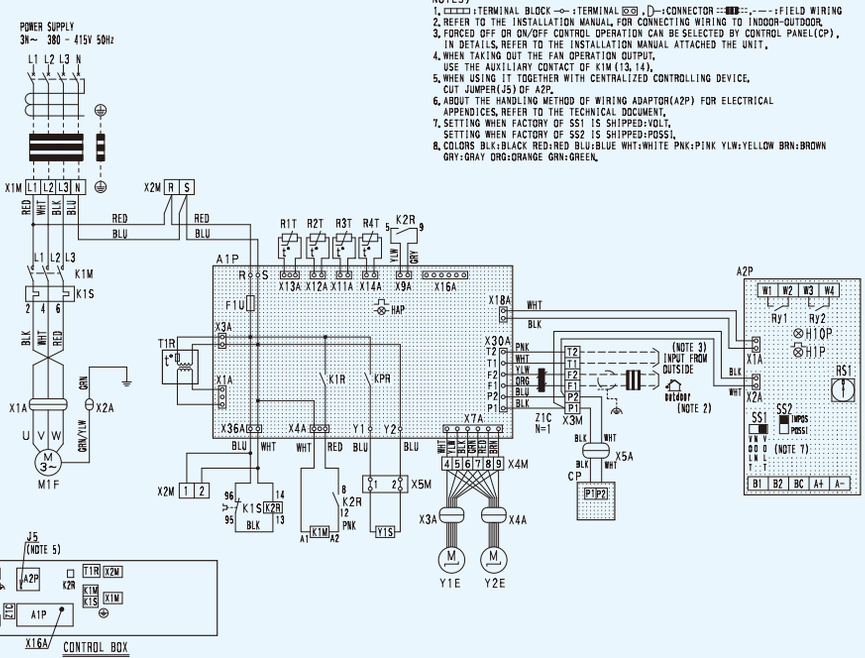
INDOOR UNIT	
A1P,A2P	PRINTED CIRCUIT BOARD
CP	CONTROL PANEL
F1U	FUSE(F,5A, 250V)
H1P	PILOTLAMP(SERVICE MONITOR-GREEN)
H10P	PILOTLAMP(MALFUCTION-RED)
HAP	FLASHING LAMP(SERVICEMONITOR-GREEN)
K1M	MAGNETIC CONTACTOR(M1F)
K1R	MAGNETIC RELAY(M1F)
K1S	OVERCURRENT RELAY(M1F)
K2R	MAGNETIC RELAY
KPR	MAGNETIC RELAY(HOT GAS BYPASS)
M1F	FAN MOTOR
R1T	THERMISTOR(HEAT EXC, INLET)
R2T	THERMISTOR(COIL LIQUID)
R3T	THERMISTOR(COIL GAS)
R4T	THERMISTOR(HEAT EXC, OUTLET)
RS1	CONTROL MODE SELECTOR
Ry1,Ry2	MAGNETIC RELAY
SS1	SELECTOR SWITCH (VOLTAGE/NON-VOLTAGE)
SS2	TEMPERATURE SETTING BY REMOTE CONTROLLER (POSSIBLE/IMPOSSIBLE)
T1R	TRANSFORMER(220-240V/22V)
X1A, X2A	RELAY CONNECTOR(M1F)
X3A	RELAY CONNECTOR(Y1E)
X4A	RELAY CONNECTOR(CP)
X1M	TERMINAL BLOCK(POWER SUPPLY)
X2M	TERMINAL BLOCK(RELAYING)
X3M	TERMINAL BLOCK (CONTROL)(REMOTE CONTROLLER)
Y1E	ELECTRONIC EXPANSION VALVE
Y1S	SOLENOID VALVE(HOT GAS BYPASS)
Z1C	FERRITE CORE
OPTIONAL CONNECTOR	
X16A	CONNECTOR(ADAPTOR FOR WIRING)



3D093434

FXVQ400NY1
FXVQ500NY1

INDOOR UNIT	
A1P,A2P	PRINTED CIRCUIT BOARD
CP	CONTROL PANEL
F1U	FUSE(F,5A, 250V)
H1P	PILOTLAMP(SERVICE MONITOR-GREEN)
H10P	PILOTLAMP(MALFUCTION-RED)
HAP	FLASHING LAMP(SERVICEMONITOR-GREEN)
K1M	MAGNETIC CONTACTOR(M1F)
K1R	MAGNETIC RELAY(M1F)
K1S	OVERCURRENT RELAY(M1F)
K2R	MAGNETIC RELAY
KPR	MAGNETIC RELAY(HOT GAS BYPASS)
M1F	FAN MOTOR
R1T	THERMISTOR(HEAT EXC, INLET)
R2T	THERMISTOR(COIL LIQUID)
R3T	THERMISTOR(COIL GAS)
R4T	THERMISTOR(HEAT EXC, OUTLET)
RS1	CONTROL MODE SELECTOR
Ry1,Ry2	MAGNETIC RELAY
SS1	SELECTOR SWITCH (VOLTAGE/NON-VOLTAGE)
SS2	TEMPERATURE SETTING BY REMOTE CONTROLLER (POSSIBLE/IMPOSSIBLE)
T1R	TRANSFORMER(220-240V/22V)
X1A, X2A	RELAY CONNECTOR(M1F)
X3A, X4A	RELAY CONNECTOR(Y1E, Y2E)
X5A	RELAY CONNECTOR(CP)
X1M	TERMINAL BLOCK(POWER SUPPLY)
X2M	TERMINAL BLOCK(RELAYING)
X3M	TERMINAL BLOCK (CONTROL)(REMOTE CONTROLLER)
X4M	TERMINAL BLOCK(RELAYING)
X5M	TERMINAL BLOCK(RELAYING)
Y1E•Y2E	ELECTRONIC EXPANSION VALVE
Y1S	SOLENOID VALVE(HOT GAS BYPASS)
Z1C	FERRITE CORE
OPTIONAL CONNECTOR	
X16A	CONNECTOR(ADAPTOR FOR WIRING)



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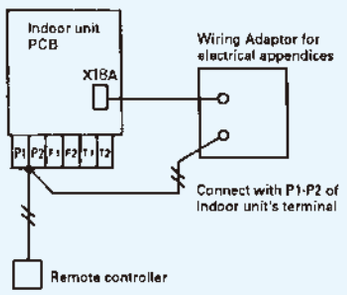
Electric Wiring Work and initial Setting for A2P

1. Wiring

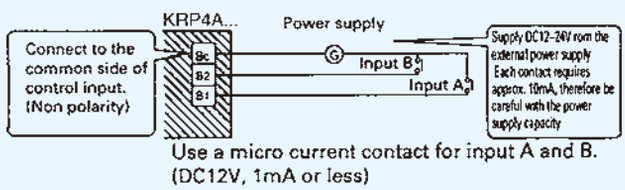


2. Depending on whether [voltage input] or [non voltage input], connect the wiring as shown below.
Input/Output for External Control

3. Depending on whether [voltage input] or [non voltage input], connect the wiring as shown below.

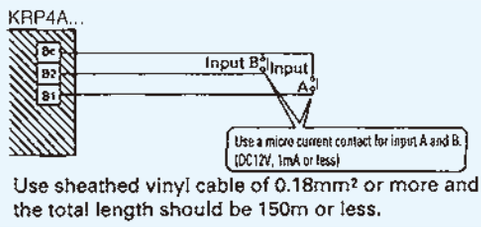
Input with Voltage.

Set the Voltage/Non voltage changeover switch (SS1) to VOLT.



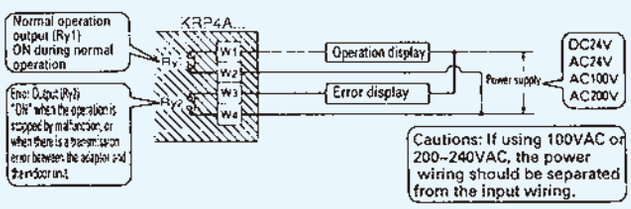
Input with No Voltage.

Set the Voltage/Non voltage changeover switch (SS1) to NON VOLT.



4. Display Signal Retrieval (Output)

The normal operation output terminals (W1, W2) and error output terminals (W3, W4) are non-voltage output contacts. (Permissive current is 10mA~3A per contact.)

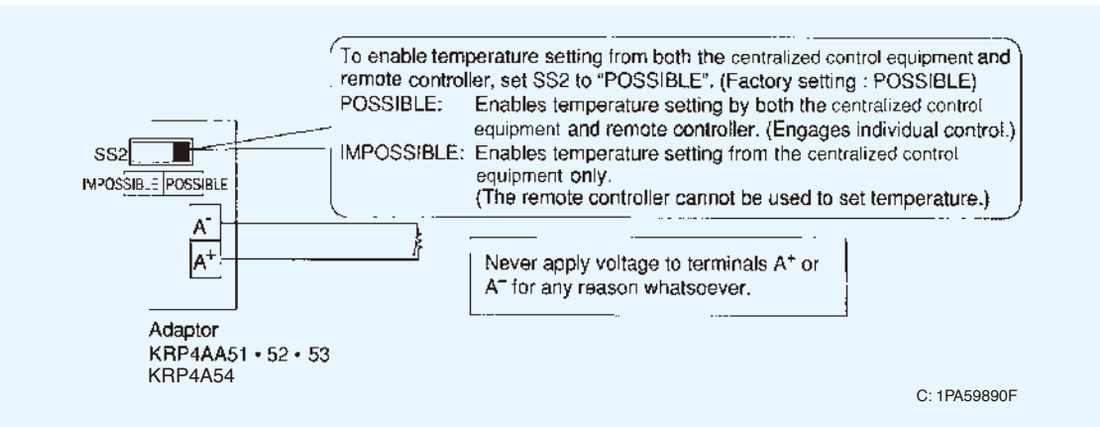


Output is as given below.

Output / System	Both Ry1 and Ry2 is OFF.	Only Ry1 is ON.	Only Ry2 is ON.
Group control	OFF	All normal operation	At least one unit is stopped due to error or transmission error between the adaptor and the indoor unit.

C: 1PA59890F

5. Temperature setting input



Temperature setting corresponds to resistance values in the range of 0 to 135Ω.
Their relationship is as shown below.

Relation between the setting temperature and the resistance are as follows.

Setting temperature (˚C)	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Resistance (Ω)	0.0 ~ 3.4	5.0 ~ 11.6	13.8 ~ 20.0	22.4 ~ 28.4	31.0 ~ 36.4	39.4 ~ 44.8	48.2 ~ 52.8	56.6 ~ 61.2	65.2 ~ 69.4	73.8 ~ 77.8	82.4 ~ 85.8	91.0 ~ 94.0	99.4 ~ 102.2	108.6 ~ 110.4	117.2 ~ 119.2	125.8 ~ 127.4	134.2 ~ 140.0

Note:
The value of resistance includes the resistance of wiring.
The setting temperature is limited within the setting range of indoor unit.
If you set the temperature outside of the range by the adaptor, it controls at the nearest setting range.

6. Setting of control mode selector switch (RS1)

CONTROL MODE Position **RS1** (1 ⑪)	Function	Input A close		Input A open		Input B close (Input A is ignored)	
		Operation or not of indoor unit	From Remote controller	Operation or not of indoor unit	From Remote controller	Operation or not of indoor unit	From Remote controller
0	Input Ignored	—			—		
1	Remote Control Rejection	ON	Rejection	OFF	Rejection	Forced OFF	Rejection
2	Central Priority	ON	Acceptable				
3	Remote Controller Acceptable/Rejection	ON	Only Stop acceptable				
4	Remote Controller acceptable/rejection, OFF	Permit	Acceptable				

Position	Function	Input A close/open (pulse input)		Constant Input B close (Constant input) (Input A is ignored)	
		Operation or not of indoor unit	From Remote controller	Operation or not of indoor unit	From Remote controller
5	Remote Control Rejection	ON/ OFF	Rejection	Forced OFF at close	Rejection
6	Last command Priority	ON/ OFF	Acceptable		

ELECTRIC CHARACTERISTICS

INDOOR UNIT / OUTDOOR UNIT

Units				Power supply		IFM		Input(W)	
Model	Hz	Volts	Voltage range	MCA	MFA	kW	FLA	Cooling	Heating
FXVQ125NY1	50	380-415	MAX. 456 Min. 342	2.5	16	0.75	2.0	530	530
FXVQ200NY1				4.4	16	1.5	3.5	1330	1330
FXVQ250NY1				4.4	16	1.5	3.5	1610	1610
FXVQ400NY1				9.9	25	3.7	7.9	3970	3970
FXVQ500NY1				9.9	25	3.7	7.9	2620	2620

Symbols:

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (See note 5)
kW : Fan Motor Rated Output(kW)
FLA : Full Load Amps(A)
IFM : Indoor Fan Motor

Note:

1. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
2. Maximum allowable voltage unbalance between phases is 2%.
3. MCA/MFA
   MCA = 1.25 X FLA
   MFA ≦ 4 X FLA
   (Next lower standard fuse rating, Min. 16A)
4. Select wire size based on the MCA.
5. Instead of fuse, use Circuit Breaker.

4D095121

Model Name				Units				Power supply			Comp.		OFM	
Combination Unit	Independent Unit			Hz	Volts	Min.	Max.	MCA	TOCA	MFA	MSC	RLA	kW	FLA
RXQ8TY1				50	380	342	456	16.1	17.0	20	——	7.8	0.55	0.9
					400						——	7.4		
					415						——	7.2		
RXQ10TY1				50	380	342	456	22.0	20.8	25	——	11.0	0.55	1.0
					400						——	10.4		
					415						——	10.0		
RXQ16TY1				50	380	342	456	31.0	34.4	35	——	9.8+9.9	0.75×2	0.9×2
					400						——	9.3+9.4		
					415						——	8.9+9.0		
RXQ20TY1				50	380	342	456	40.0	41.7	50	——	11.3+16.2	0.75×2	1.5+1.1
					400						——	10.7+15.4		
					415						——	10.4+14.9		
RXQ24TSY1	RXQ12TY1	RXQ12TY1		50	380	342	456	46.0	41.6	50	——	13.7×2	0.55×2	1.2×2
					400						——	13.0×2		
					415						——	12.5×2		
RXQ30TSY1	RXQ12TY1	RXQ18TY1		50	380	342	456	55.0	55.2	60	——	13.7+11.0+12.7	0.55 +0.75×2	1.2 +0.9×2
					400						——	13.0+10.4+12.1		
					415						——	12.5+10.1+11.7		
RXQ32TSY1	RXQ12TY1	RXQ20TY1		50	380	342	456	62.0	62.5	70	——	13.7+11.3+16.2	0.55 +0.75×2	1.2 + (1.5+1.1)
					400						——	13.0+10.7+15.4		
					415						——	12.5+10.4+14.9		
RXQ40TSY1	RXQ20TY1	RXQ20TY1		50	380	342	456	77.0	83.4	90	——	(11.3+16.2)×2	(0.75×2)×2	(1.5+1.1)×2
					400						——	(10.7+15.4)×2		
					415						——	(10.4+14.9)×2		
RXQ48TSY1	RXQ12TY1	RXQ18TY1	RXQ18TY1	50	380	342	456	93.0	89.6	110	——	13.7+(11.0+12.7)×2	0.55 +(0.75×2)×2	1.2 +(0.9×2)×2
					400						——	13.0+(10.4+12.1)×2		
					415						——	12.5+(10.1+11.7)×2		
RXQ60TNY1	RXQ20TY1	RXQ20TY1	RXQ20TY1	50	380	342	456	120.0	125.1	150	——	(11.3+16.2)×3	(0.75×2)×3	(1.5+1.1)×3
					400						——	(10.7+15.4)×3		
					415						——	(10.4+14.9)×3		

Symbols:
MCA :Min. Circuit Amps. (A)
TOCA :Total Over-current Amps. (A)
MFA :Max. Fuse Amps. (A)
MSC :Max. Starting current
RLA :Rated Load Amps. (A)
OFM :Outdoor Fan Motor
FLA :Full Load Amps. (A)
kW :Rated Motor Output(kW)

Notes:
1. RLA is based on the following conditions.
   Indoor temp. 27°C DB/19.0°C WB
   Outdoor temp. 35°C DB
2. TOCA means the total value of each OC set.
3. MSC means the Max. current during the starting of compressor.
4. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
5. Maximum allowable voltage variation between phases is 2%.
6. Select wire size based on the value of MCA.
7. MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker).

C: 3D085335B
C: 3D085348B
C: 3D085349B
C: 3D085338B

INDOOR UNIT

CAPACITY TABLES

Model	Capacity indication	Indoor air temp.													
		14.0°CWB		16.0°CWB		18.0°CWB		19.0°CWB		20.0°CWB		22.0°CWB		24.0°CWB	
		20.0°CDB		23.0°CDB		26.0°CDB		27.0°CDB		28.0°CDB		30.0°CDB		32.0°CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
FXVQ-NY1	125	9.4	8.8	11.3	9.8	13.1	10.8	14.0	10.9	14.2	10.5	14.5	9.8	14.9	9.1
	200	15.1	13.8	18.0	15.2	20.9	16.7	22.4	16.9	22.7	16.4	23.2	15.3	23.8	14.1
	250	18.9	17.0	22.5	18.9	26.2	20.8	28.0	21.2	28.3	20.4	29.0	19.1	29.7	17.6
	400	30.4	27.4	36.2	30.5	42.1	33.5	45.0	34.1	45.5	33.0	46.6	30.9	47.7	28.7
	500	37.8	35.2	45.1	39.5	52.4	43.4	56.0	44.2	56.7	42.7	58.0	39.9	59.4	37.3

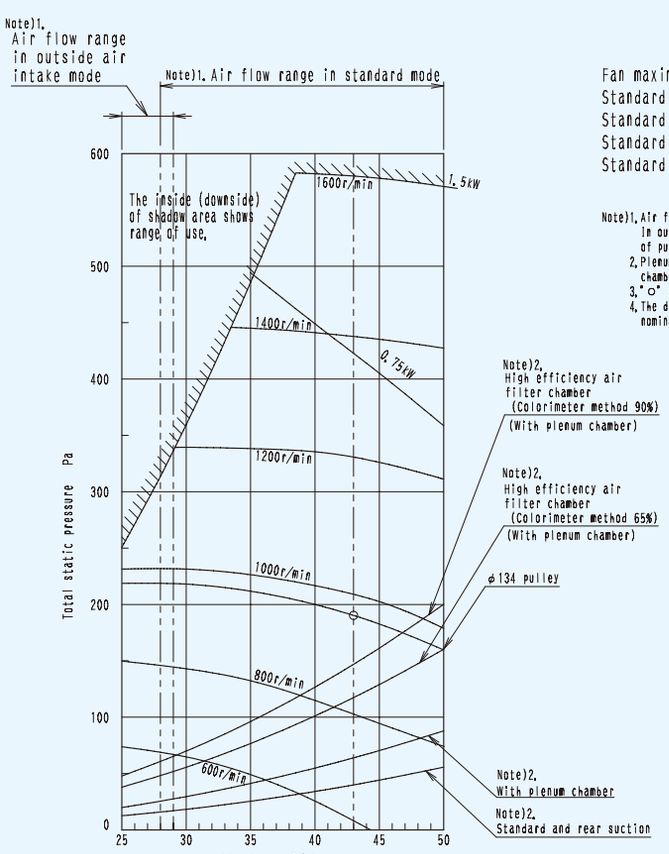
TC: Total capacity: kW
SHC: Sensible heat capacity: kW

Notes:
1. These capacity tables are for use when selecting a *VRV* indoor unit. The actual capacity of the *VRV* system depends on factors such as the selected model of outdoor units, outdoor air temperature and piping length. Please confirm that the corrected capacity of the *VRV* system satisfies the required heat load.
2. ☐ shows rated condition.

CA13A279A

FAN PERFORMANCE

FXVQ125NY1



Fan maximum revolution speed	1600r/min
Standard motor output	0.75kW
Standard fan pulley	A195
Standard motor pulley	A134
Standard belt size	A45

Note)1. Air flow range is different for each operation mode.
In outside air intake mode, air flow must be adjusted by change of pulley and set of damper etc.
2. Plenum chamber, rear suction and high efficiency air filter chamber are optional accessories.
3. "○" shows rated air flow in standard mode.
4. The distance between motor shaft and fan shaft is 326mm at nominal air flow.

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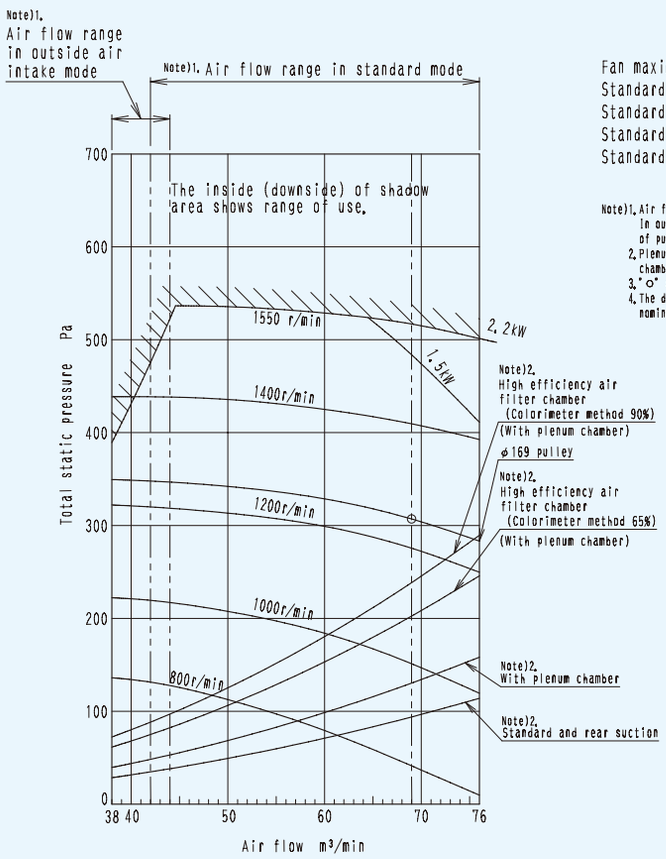
INDOOR UNIT

FXVQ200NY1

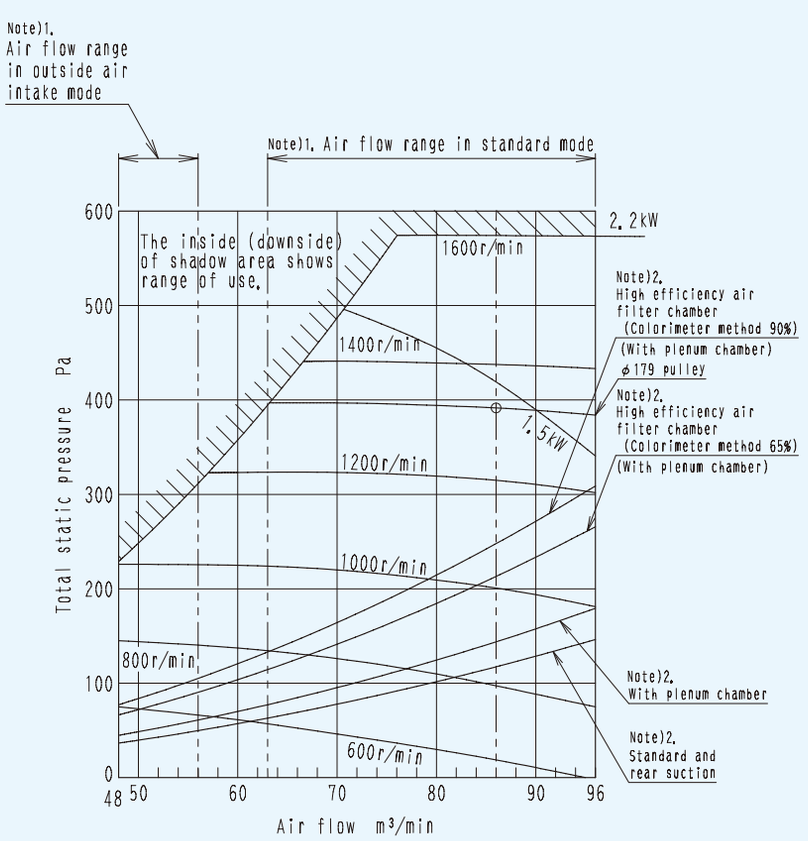


Fan maximum revolution speed	1550r/min
Standard motor output	1.5kW
Standard fan pulley	A195
Standard motor pulley	A169
Standard belt size	A47

Note)1. Air flow range is different for each operation mode, In outside air intake mode, air flow must be adjusted by change of pulley and set of damper etc,
2. Plenum chamber, rear suction and high efficiency air filter chamber are optional accessories,
3. "○" shows rated air flow in standard mode,
4. The distance between motor shaft and fan shaft is 325mm at nominal air flow.

4D095109

FXVQ250NY1



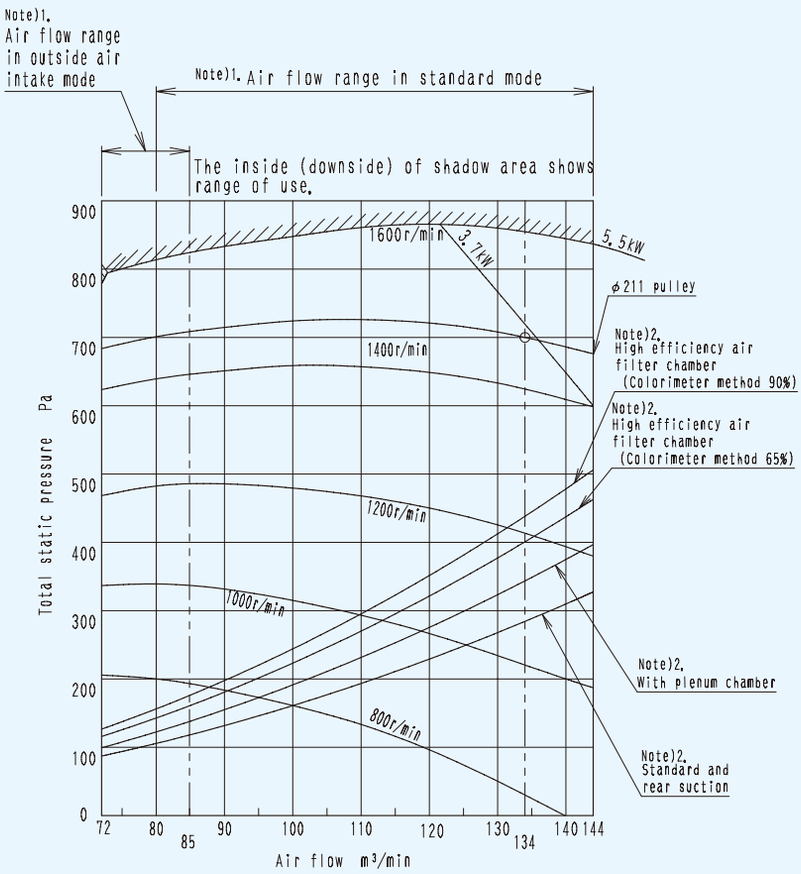
Fan maximum revolution speed	1600r/min
Standard motor output	1.5kW
Standard fan pulley	A195
Standard motor pulley	A179
Standard belt size	A48

Note)1. Air flow range is different for each operation mode, In outside air intake mode, air flow must be adjusted by change of pulley and set of damper etc,
2. Plenum chamber, rear suction and high efficiency air filter chamber are optional accessories,
3. "○" shows rated air flow in standard mode,
4. The distance between motor shaft and fan shaft is 330mm at nominal air flow.

4D095111

INDOOR UNIT

FXVQ400NY1



Fan maximum revolution speed	1600r/min
Standard motor output	3.7kW
Standard fan pulley	2B211
Standard motor pulley	B211
Standard belt size	B44

Note)1. Air flow range is different for each operation mode.
In outside air intake mode, air flow must be adjusted by change of pulley and set of damper etc.
2. Plenum chamber, rear suction and high efficiency air filter chamber are optional accessories.
3. "○" shows rated air flow in standard mode.
4. The distance between motor shaft and fan shaft is 245mm at nominal air flow.

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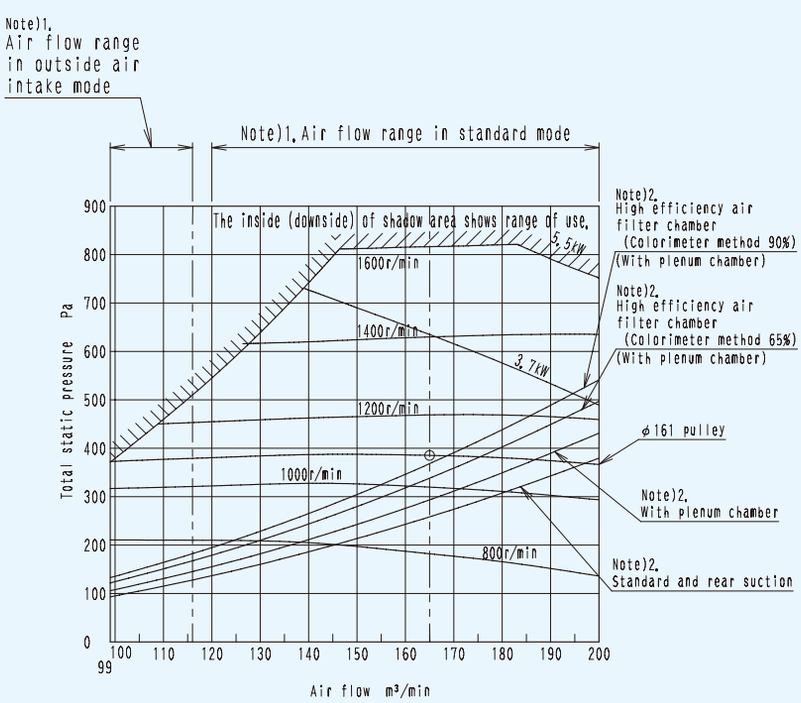
FXVQ500NY1



Fan maximum revolution speed	1600r/min
Standard motor output	3.7kW
Standard fan pulley	2B211
Standard motor pulley	B161
Standard belt size	B40

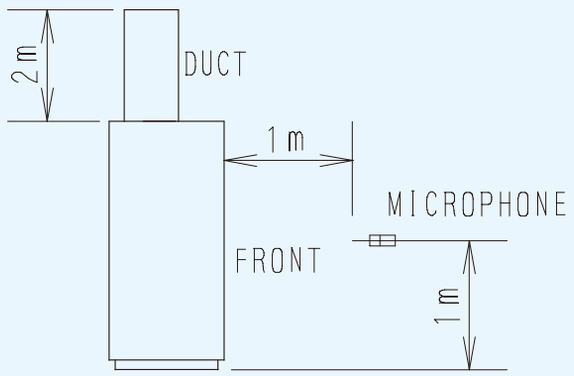
Note)1. Air flow range is different for each operation mode.
In outside air intake mode, air flow must be adjusted by change of pulley and set of damper etc.
2. Plenum chamber, rear suction and high efficiency air filter chamber are optional accessories.
3. "○" shows rated air flow in standard mode.
4. The distance between motor shaft and fan shaft is 232mm at nominal air flow.

4D095113

INDOOR UNIT

Overall

Location of microphone (for sound pressure level)



Notes:

1. The operating conditions are assumed to be standard (JIS conditions).
2. These operating values were obtained in anechoic chamber (conversion values).
   Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of the particular room in which the equipment installed.

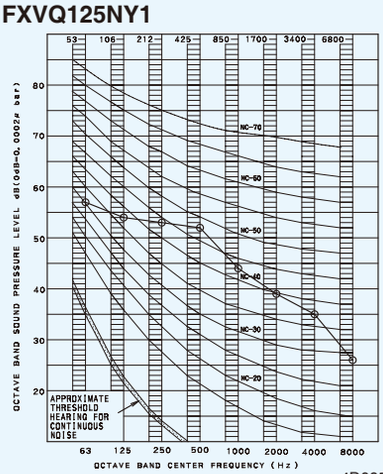
dB(A)

Model	Sound pressure level
	380-415V, 50Hz
FXVQ125NY1	52
FXVQ200NY1	56
FXVQ250NY1	60
FXVQ400NY1	65
FXVQ500NY1	62

Octave Band Level

○——○ 380-415V, 50Hz

FXVQ125NY1



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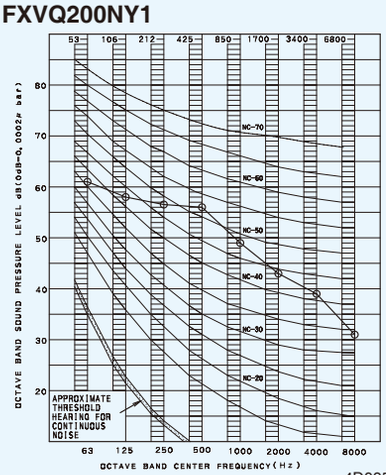
FXVQ200NY1



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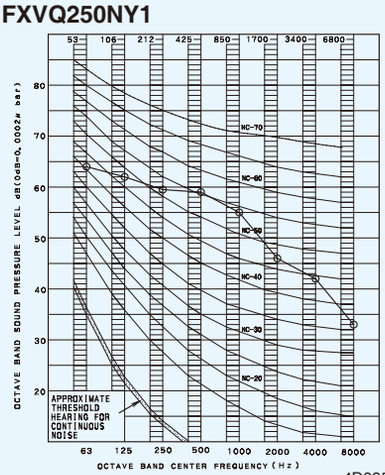
FXVQ250NY1



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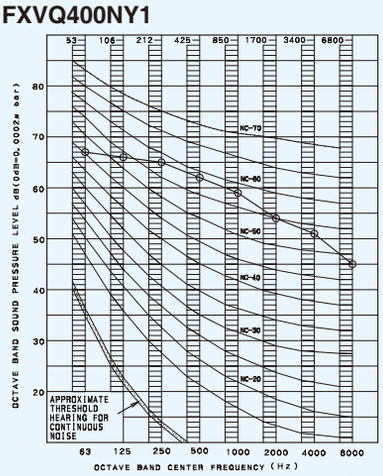
FXVQ400NY1



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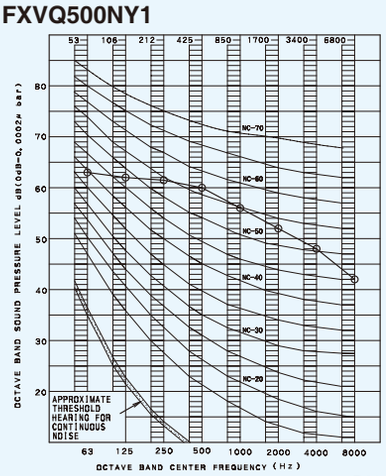
FXVQ500NY1



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OPTIONAL ACCESSORIES

Item \ Model					FXVQ125NY1	FXVQ200NY1	FXVQ250NY1	FXVQ400NY1	FXVQ500NY1
Option for discharge and suction	Replacement long life filter				KAFJ261L140	KAFJ261L224	KAFJ261L280	KAFJ261M450	KAFJ261M560
	Ultra long-life filter				—			KAFSJ9A400	KAFSJ9A560
	Front suction filter chamber for high-efficiency filter	Front suction base flange			KD-9A140	KD-9A200	KD-9A280	KD-9A400	KD-9A560
		Suction grille			KDGF-9A140	KDGF-9A200	KDGF-9A280	KDGF-9A400	KDGF-9A560
		Filter chamber for high-efficiency fillter [4, 5]	Replacement long-life filter [4, 5, 6]		KAF-91A140	KAF-91A200	KAF-91A280	KAF-91A400	KAF-91A560
			Replacement high-efficiency filter	Colorimetric method 65% [4, 6]	KAF-92A140	KAF-92A200	KAF-92A280	KAF-92A400	KAF-92A560
				Colorimetric method90% [5, 6]	KAF-93A140	KAF-93A200	KAF-93A280	KAF-93A400	KAF-93A560
			Filter chamber [4, 5]		KDDF-9A140	KDDF-9A200	KDDF-9A280	KDDF-9A400	KDDF-9A560
	Plenum chamber				KPCJ140A	KPC5J	KPC8J	KPCJ400A	KPC15JA
	Pully for plenum chamber				KPP8JA	KPP9JA	KPP10JA	— [7]	
	Discharge grille for plenum side				KD101A10			KD101A20	
	Fresh air intake kit				KD106D10			KDFJ906A560	
	Rear suction kit				KDFJ905A140	KDFJ905A200	KDFJ905A280	KDFJ905A400	KDFJ905A560
Wood base					KKWJ9A140	KWF1G5P	KWF1G8P	KKWJ9A400	KWF1G15
Vibration isolating frame					K-ABSG1406A	K-ABSG1407A	K-ABSG1408A	K-ABSG1409A	K-ABSG1410A
Controller	Remote controller				BRC1C622/BRC1E623				
	Intelligent touch controller				DCS601C51				
	Intelligent touch manager				DCM601A51				
	Central remote controller				DCS302CA61				
	Unified ON/OFF Controller				DCS301BA61				
	Schedule timer				DST301BA61				
	Adaptor for wiring				KRP1C67				
	Wiring adaptor for electrical appendices (1)				KRP2A62				
	External control adaptor for cooling/heating[1]				KRP6A1				
	External control adaptor for outdoor unit[1]				DTA104A62				
	Remote sensor				KRCS01-1B				
	Remote controller box with key				KRCB37-1				

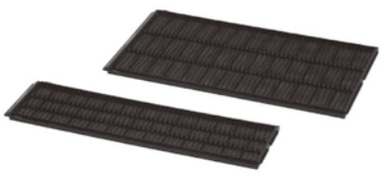
Note : [1]Remove the group control adaptor which is a standard equipment before mounting KRP6A1 and DTA104A62.
KRP6A1 and DTA104A62 cannot be mounted to the same indoor unit at the same time.
[2]Since the control panel is equipped as standard, use the option for 2 remote control system.
[3]When using BRC1E62, be sure to remove the control panel and since BRC1E62 cannot be stored inside the indoor unit, please place it separately.
[4]When ordering a filter chamber for high-efficiency filter (colorimetric method 65%), please order with all the respective parts.
[5]When ordering a filter chamber for high-efficiency filter (colorimetric method 90%), please order with all the respective parts.
[6]When replacing with a new filter, please order the replacement filters with the corresponding filter model name.
[7]The pulley and V-belt are fileld supply.

C: 3D085669E

	Specification	
	Pulley	V-belt
FXVQ400NY1	B151	B40
FXVQ500NY1	B143	B39

KAFJ261L140 · 224 · 280 / KAFJ261M450 · 560 — Replacement Long-life Filter

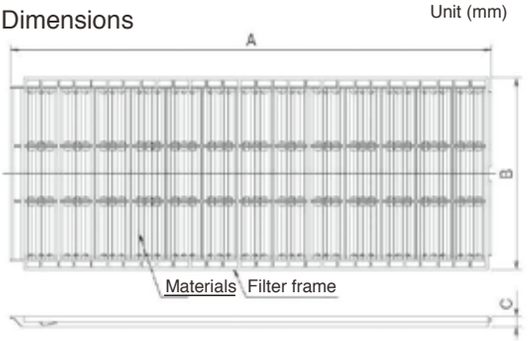
KAFJ261L140



• Can be water-washed. Can be reused.

Dimensions

Unit (mm)

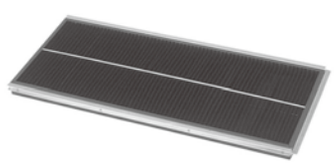


Model	A X B X C
KAFJ261L140	700 × 198 × 15 700 × 403 × 15
KAFJ261L224	700 × 403 × 15
KAFJ261L280	700 × 198 × 15 700 × 403 × 15
KAFJ261M450	483 × 315 × 20
KAFJ261M560	483 × 315 × 20

J: D3K2979

Item \ Model	KAFJ261L140	KAFJ261L224	KAFJ261L280	KAFJ261M450	KAFJ261M560
Average Efficiency (%)	40 (Gravity method)			50 (Gravity method)	
Initial Pressure Loss (Pa)	9.0				
Final Pressure Loss (Pa)	49.0				
Life (h)	2,500 hours (dust concentration 0.15 mg/m³)				
Materials	Mildew proof resin net				
Number of Sheets Included	2 (each 1)	2	3 (Large:2, Small:1)	6	8

KAFSJ9A400 · 560 — Ultra Long-life Filter Unit



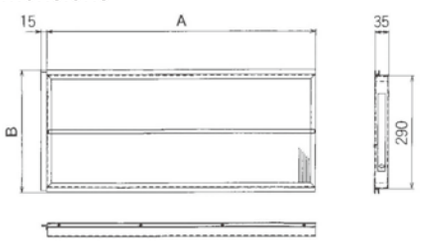
• Used after replacing with a standard filter. (No main body remodeling)
• Dust collection efficiency (45% gravity method) equivalent to that of long-life filter.
The interval between cleaning cycles is extended by four times or more.
• If installed in a pachinko parlour, maintenance is required only once a year. (Long-life filter: 3 months)
• Can be synchronized with coil cleaning (Approximately once a year in pachinko parlours) to realize economy of maintenance.

Caution

1.The filter should be cleaned (with water) regularly according to the table to the right.
2.The filter unit collects dirt and dust, but, since it collects cigarette smoke insufficiently, use in combination with an air purifier will improve effectiveness.

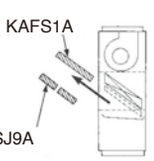
Dimensions

Unit (mm)



Model	A	B
KAFSJ9A400•560	478	317

Mounting diagram



JC: D3K2359

Item \ Model	KAFSJ9A400	KAFSJ9A560
Precipitation Efficiency (%)	45 or more (Gravity method)	
Initial Pressure Loss (Pa)	25	
Final Pressure Loss (Pa)	49	
Life (h)	5,000 hours (dust concentration 0.35 mg/m³)	
	10,000 hours (dust concentration 0.17 mg/m³)	
Materials	Mildew proof resin net	
Number of Sheets Included	6	8
Component Parts	Reinforcing plate/frame/filter material	
Mass (kg)	3.5	4.5

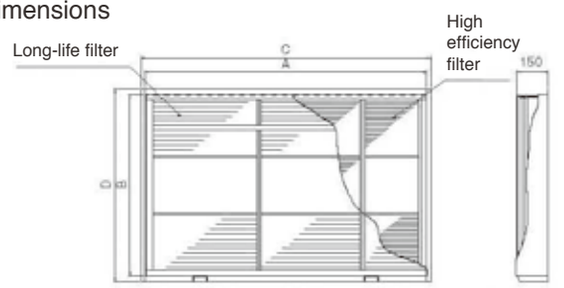
Both life shows a case that "the air purifier" is installed.

Mounting Locations	Approximately Every 10,000 Hours
Locations with Much Dust (e.g. Pachinko parlours, etc.)	Approximately every 5,000 hours
Locations with Little Dust (e.g. offices)	Approximately every 10,000 hours

KDDF-92A140~560 / KDDF-93A140~560 — High Efficiency Filter Chamber

Dimensions

Unit (mm)



Model	Dimensions			
	A	B	C	D
KDDF-92A140	640	685	680	735
KDDF-92A200	840		880	
KDDF-92A280	1,060		1,100	
KDDF-92A400	1,050	865	1,090	915
KDDF-92A560	1,350		1,390	
KDDF-93A140	640	685	680	735
KDDF-93A200	840		880	
KDDF-93A280	1,060		1,100	
KDDF-93A400	1,050	865	1,090	915
KDDF-93A560	1,350		915	

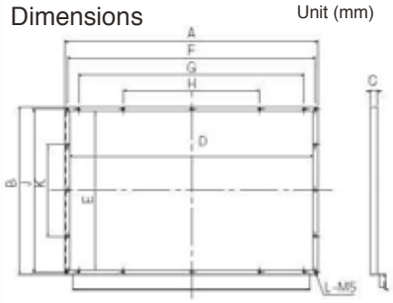
Item \ Model		**KDDF-92A140**	**KDDF-92A200**	**KDDF-92A280**	**KDDF-92A400**	**KDDF-92A560**
Inserted Filter	Filter Chamber	KDDF-9A140	KDDF-9A200	KDDF-9A280	KDDF-9A400	KDDF-9A560
	High Efficiency Filter (65% Colorimetric Method)	KAF-92A140	KAF-92A200	KAF-92A280	KAF-92A400	KAF-92A560
	Long-life Filter	KAF-91A140	KAF-91A200	KAF-91A280	KAF-91A400	KAF-91A560
Mass (kg)		16.1	18.5	22.3	26.0	32.0

Item \ Model		**KDDF-93A140**	**KDDF-93A200**	**KDDF-93A280**	**KDDF-93A400**	**KDDF-93A560**
Inserted Filter	Filter Chamber	KDDF-9A140	KDDF-9A200	KDDF-9A280	KDDF-9A400	KDDF-9A560
	High Efficiency Filter (65% Colorimetric Method)	KAF-93A140	KAF-93A200	KAF-93A280	KAF-93A400	KAF-93A560
	Long-life Filter	KAF-91A140	KAF-91A200	KAF-91A280	KAF-91A400	KAF-91A560
Mass (kg)		16.1	18.5	22.3	26.0	32.0

KD-9A140~560 — Front Suction Base Flange

Dimensions

Unit (mm)



Model	A	B	C	D	E	F	G	H	J	K	L
KD-9A140	682	740	40	632	690	654	2×300=600	-	712	280	14
KD-9A200	882			832		854	800	250			16
KD-9A280	1,102			1,052		1,074	1,020	2×250=500			18
KD-9A400	1,092	920		1,042	870	1,064	1,010	2×250=500	892	2×250=500	20
KD-9A560	1,392			1,342		1,364	1,310	3×250=750			22

J: D3K2903

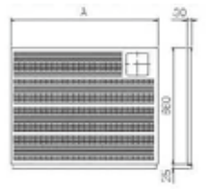
Item \ Model	**KD-9A140**	**KD-9A200**	**KD-9A280**	**KD-9A400**	**KD-9A560**
Material	Steel plate (painting)				
Mass (kg)	3.5	4.2	4.8	5.1	5.9

KDGF-9A140~560 — Suction Grille

Dimensions

Unit (mm)

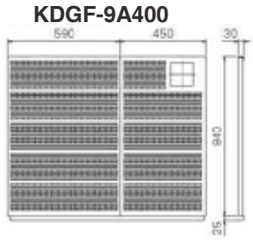
KDGF-9A140·200·280



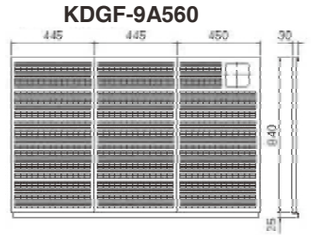
Model	A
KDGF-9A140	630
KDGF-9A200	830
KDGF-9A280	1,050

JC: D3K2905

KDGF-9A400



KDGF-9A560



Item \ Model	KDGF-9A140	KDGF-9A200	KDGF-9A280	KDGF-9A400	KDGF-9A560
Materials	Steel plate (painting)				
Mass (kg)	3.8	4.9	6.4	7.7	10

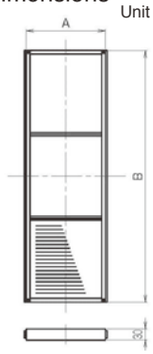
KAF-91A140~560 — Long-life Filter

Additional required optional items

- High efficiency filter chamber is necessary.
- Can be water-washed. Can be reused.

Dimensions

Unit (mm)



J: D3K2818

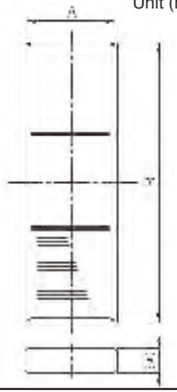
Model	A	B	C (Airflow Rate Passing Through Filter)	D (Number of Sheets)
KAF-91A140	210	670	16	1
	410	670	32	1
KAF-91A200	410	670	32	2
KAF-91A280	210	670	16	1
	410	670	32	2
KAF-91A400	340	850	40	3
KAF-91A560	330	850	40	4

Item \ Model	KAF-91A140	KAF-91A200	KAF-91A280	KAF-91A400	KAF-91A560
Average Efficiency (%)	50 (Gravity method)				
Initial Pressure Loss (Pa)	9.8 or less				
Final Pressure Loss (Pa)	49.0 or less				
Life (h)	2,500 hours or more (dust concentration 0.15 mg/m³)				
Airflow Rate Passing Through Filter	C m³/min				
Materials	Mildew proof resin net				
Number of Sheets Included (D)	2	2	3 (1+2)	3	4
Mass (kg)	2.0 (1+1)	2.4	3.2	4.5	6.0

KAF-92A140~560 / KAF-93A140~560 — High Efficiency Filter

Additional required optional items
• High efficiency filter chamber is necessary.

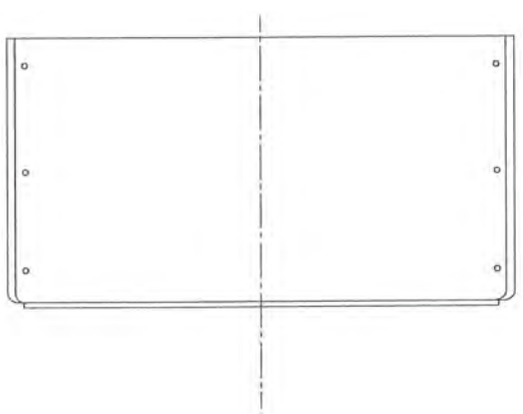
Dimensions Unit (mm)



Model	A	B	C (Number of sheets)
KAF-92A140	210	670	1
	410		1
KAF-92A200	410		2
KAF-92A280	210		1
	410		2
KAF-92A400	340	850	3
KAF-92A560	330		4
KAF-93A140	210	670	1
	410		1
KAF-93A200	410		2
KAF-93A280	210		1
	410		2
KAF-93A400	340	850	3
KAF-93A560	330		4

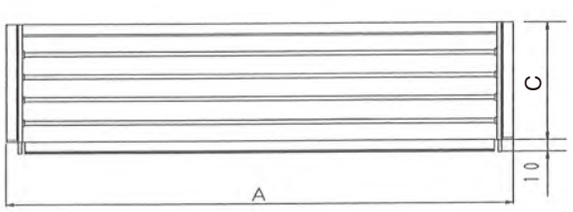
Item \ Model	**KAF-92A140**	**KAF-92A200**	**KAF-92A280**	**KAF-92A400**	**KAF-92A560**	**KAF-93A140**	**KAF-93A200**	**KAF-93A280**	**KAF-93A400**	**KAF-93A560**
Average Efficiency (Colorimetric Method) (%)	65					90				
Initial Pressure Loss (Pa)	60			70		75			95	
Final Pressure Loss (Pa)	150								200	
Life (h)	2,200 hours or more (dust concentration 0.15 mg/m³)					1,800 hours or more (dust concentration 0.15 mg/m³)				
Materials	Non-woven fabric of synthetic fiber									
Number of Sheets Included (C)	2 (1+1)	2	3 (1+2)	3	4	2 (1+1)	2	3 (1+2)	3	4
Mass (kg)	3.0	3.6	4.8	5.7	7.6	3.0	3.6	4.8	5.7	7.6

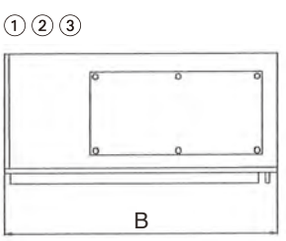
KPC(J) — Plenum Chamber

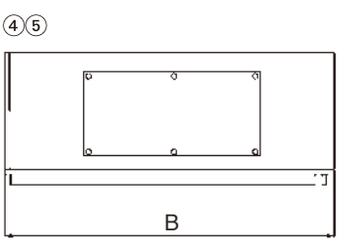


Plenum Chamber Unit (mm)

	Kit Name	A	B	C	Mass (kg)
①	**KPCJ140A**	750	510	230	14
②	**KPC5J**	950			15
③	**KPC8J**	1,170			16
④	**KPCJ400A**	1,170	720		23
⑤	**KPC15JA**	1,470		320	27







KPP5-10JA — Pulley for Plenum Chamber

Pulley Kit Manual

This pulley kit comprises a replacement pulley and V-belt kit for direct blowout in combination with the plenum chamber.

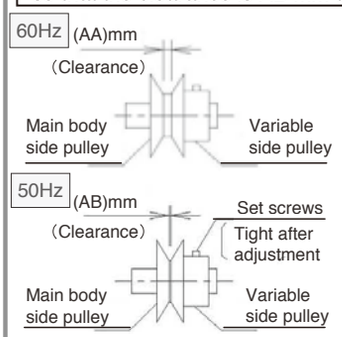
Components in this kit

(Variable motor pulley x 1, V-belt x 1, Manual)

Cautions regarding Usage

1. This kit should be used with no external static pressure applied.
2. This pulley in this kit is designed for 60 Hz regions. In 50 Hz regions, the pulley should be adjusted in accordance with the following guidelines.

The variable side pulley is provided with two set screws.
Use one of the two screws for securing to the main body pulley shaft.
Use the remaining screw to secure the variable side pulley so that the clearance is AB mm as shown in the table below.



Kit Name	AA	AB
BPPJ190A	7.5	1.5
BPPJ262A	7.5	3.0
KPP5JA **KPP8JA** **KPP9JA** **KPP10JA** **RBP-KPP5JA** **RBP-KPP8JA** **RBP-KPP10JA**	6.0	0

3. After replacing the pulley, adjust the belt tension and parallelism with the fan pulley.

3P255225-1D

Pulley Kit Manual

This pulley kit comprises a replacement pulley and V-belt kit for direct blowout in combination with the plenum chamber.

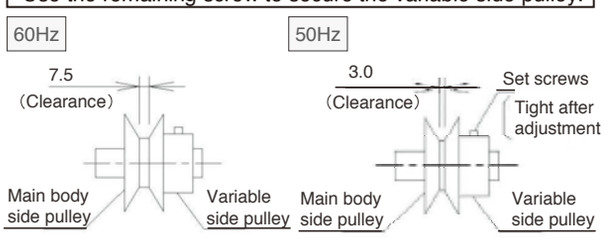
Components in this kit

(Variable motor pulley x 1, V-belt x 1, Manual)

Cautions for Usage

1. This kit should be used with no external static pressure applied.
2. This pulley in this kit is designed for 60 Hz regions. In 50 Hz regions, the pulley should be adjusted in accordance with the following guidelines.

The variable side pulley is provided with two set screws.
Use one of the two screws for securing to the main body pulley shaft.
Use the remaining screw to secure the variable side pulley.

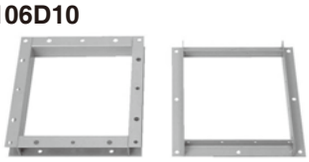


3. After replacing the pulley, adjust the belt tension and parallelism with the fan pulley.

3P265225-2B

KD106D10 / KDFJ906A560 — Fresh Air Intake Kit

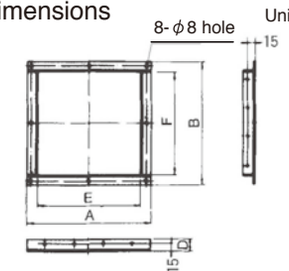
KD106D10



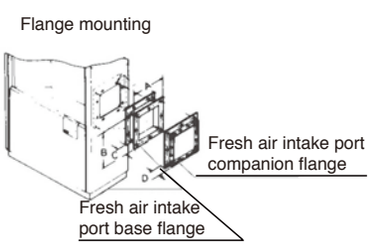
Caution

- A fabric duct (field supply) should always be used for the connection point between the air conditioner and duct and vibration isolation of the ducting system and air conditioner should be implemented.

Dimensions



Example



The above diagram shows companion flanges only.

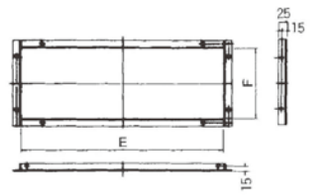
JC: D3K0677

Item \ Model		KD106D10	KDFJ906A560
Dimensions (mm)	A	260	350
	B	260	350
	C	40	
	D	25	
Inner Diameter of Connection Duct (mm)	E	210	300
	F	0 1 2	300
Component Parts		Base flange, Companion flange, Cover plate, Bolts, Nuts, Installation manual	

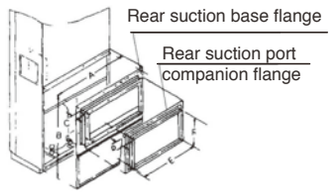
KDFJ905A140 · 200 · 280 · 400 · 560 — Rear Suction Kit

Caution
- A fabric duct (field supply) should always be used for the connection point between the air conditioner and duct and vibration isolation of the ducting system and air conditioner should be implemented.

Dimensions Unit (mm)



Example



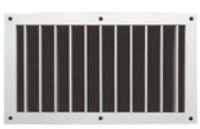
The above diagram shows companion flanges only.

JC: D3K2355B

Item \ Model		KDFJ905A140	KDFJ905A200	KDFJ905A280	KDFJ905A400	KDFJ905A560
Dimensions (mm)	A	740	940	1,160	1,160	1,460
	B	514	514	514	484	484
	C	40	40	40	40	40
	D	25	25	25	25	25
Inner Diameter of Connection Duct (mm)	E	640	840	1,060	1,050	1,350
	F	260	260	260	300	300
Component Parts		Base flange, Companion flange, Front shield plate, Bolts, Nuts, Installation manual				
Mass (kg)		12	17	19	21	24

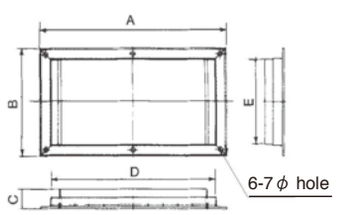
KD101A10 · 20 — Discharge Grille for Plenum Side

KD101A10



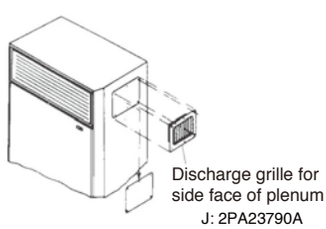
- The airflow direction can be set to the left and right of the air conditioner to match the room condition. The vertical blade direction can be adjusted to the left or right.
  →The airflow direction can be adjusted as required.

Dimensions Unit (mm)



J: D3K0668

Example of grille mounting



J: 2PA23790A

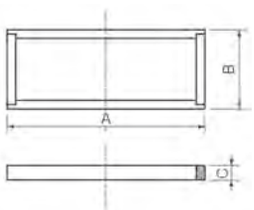
Item \ Model		KD101A10	KD101A20
Dimensions (mm)	A	330	444
	B	190	255
	C	35	
Mass (kg)		0.5	0.7
Diameter of Connection Duct (mm)	D	290	404
	E	150	215
Bolt Pitch	h	t d i W 2×155	2×213
	Length	170	235
Colour		Ivory (Munsell value: Approximately 5Y7.5/1)	
Component Parts		Discharge grille, Screws and washers, Installation manual	

KWF1G5P · 8P / KKWJ9A140 · 400 / KWF1G15 — Wood Base

KWF1G5P

- The air conditioner should be installed so that its weight is distributed evenly on the floor.
- (KWF1G5P • 8P • 15) with shock absorbing rubber.
- Easy drain piping.
  →Drain piping is sloped downward to facilitate drain discharge.

Dimensions Unit (mm)



J: D3K0968A

Model	Dimensions		
	A	B	C
KKWJ9A140	730	480	85
KKWJ9A400	1,150	480	85
KWF1G5P	930	480	85
KWF1G8P	1,150	480	85
KWF1G15	1,450	685	85

Item \ Model	KKWJ9A140	KKWJ9A400
Materials	Western hemlock (Depending on the materials market status, Douglas fir may also be used.)	
Shape	Onsite assembly	
Colour	DK Black (Munsell value: Approximately N-1.2)	
Accessories	Shock absorbing rubber (t=2mm)	
Mass (kg)	5.0	10.0

Item \ Model	KWF1G5P	KWF1G8P	KWF1G15
Materials	Western hemlock (Depending on the materials market status, Douglas fir may also be used.)		
Shape	Onsite assembly		
Colour	DK Black (Munsell value: Approximately N-1.2)		
Accessories	Shock absorbing rubber (t=2mm)		
Mass (kg)	5.0	6.0	11.5

K-ABSG1406A-1410A — Vibration Isolating Frame

Vibration Isolating Frame Installation manual

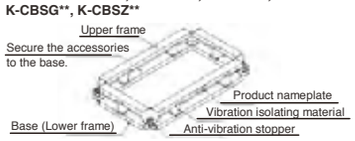
Please be sure to read the following before installation and follow the instructions carefully when performing installation work.

Before Installation

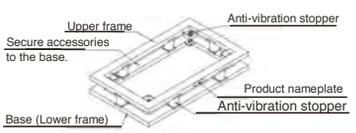
Please check that the product number on the product nameplate matches the product order.
Please check the accessories (nuts and bolts).

Fig. 1 <Shape>

In case of K-KSV, K-ABSG**, K-ABSZ**, K-CBSG**, K-CBSZ****



In case of K-ABS, K-ABSV**, K-CBS**, K-CBSV****



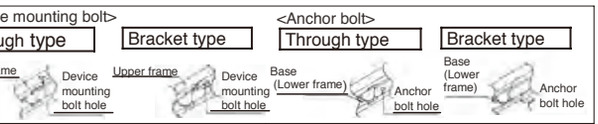
*1: "機械銘板側", " 配管側 or " 搭載機正面側is st amped on the upper frame corresponding to the machine nameplate or the piping side of mounted units.

*2: The vibration isolation material differs in arrangements and numbers depending on the type of the model.

Accessories

Nut and bolt joint shapes
There are two types of hole for device mounting bolts and anchor bolts: Through-frame and bracket types.

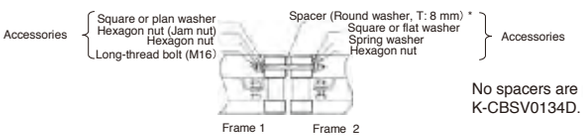
<Device mounting bolt> Through type / Bracket type; <Anchor bolt> Through type / Bracket type



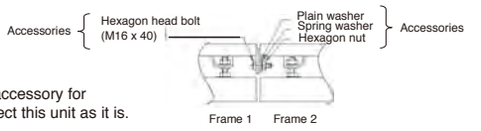
Nut and bolt joint shapes			In case of K-KSV**, K-ABSG**, K-ABSZ**, K-CBSG**, K-CBSZ**				In case of K-ABS**, K-ABSV**, K-CBS**, K-CBSV**			
Device mounting bolt hole			Through type	Through type	Bracket type	Bracket type	Through type	Through type	Bracket type	Bracket type
Anchor bolt hole			Through type	Bracket type	Through type	Bracket type	Through type	Bracket type	Through type	Bracket type
Accessories	For device mounting	Hexagon head bolt	○				○			
		Hexagon head nut	○				○			
		Spring washer	○				○			
		Plain washer	○				○			
		Plain washer (Large)	○	○						
		Square washer					○	○		
	For anchors	Plain washer (Large) For M12 O.D. ϕ32	○		○					
		Square washer For M12 O.D. □42 For M16 O.D. □52					○		○	

* ○ mark: Number equivalent to the number of bolt setting points provided as accessories.

<For connection types> The connection nuts and bolts are provided as accessories as shown in the figures below for connection installation of two or more vibration isolation frames.

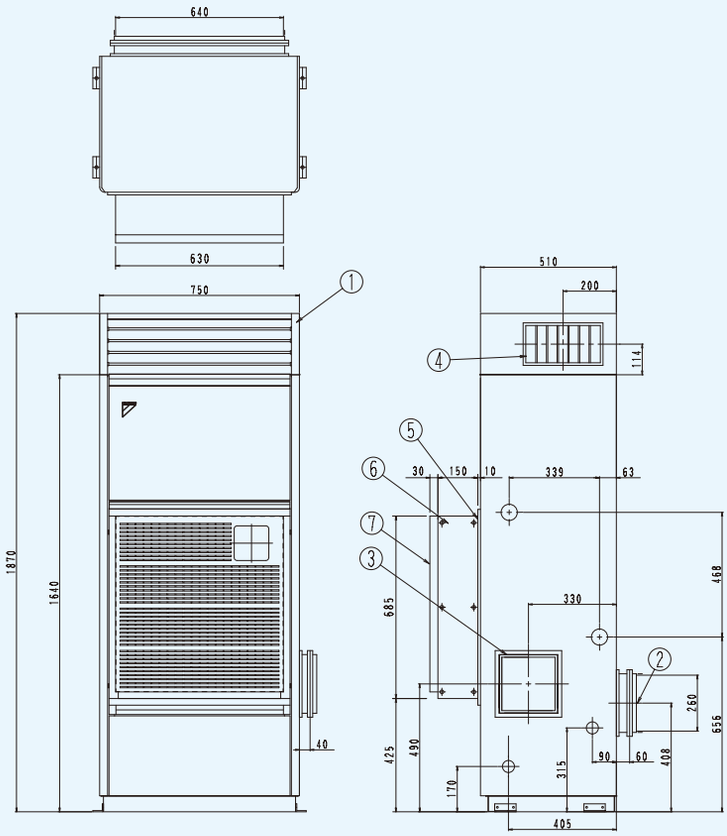


No spacers are provided as accessory for K-CBSV0134D. Please connect this unit as it is.



Dimensions of Optional Accessories

FXVQ125NY1

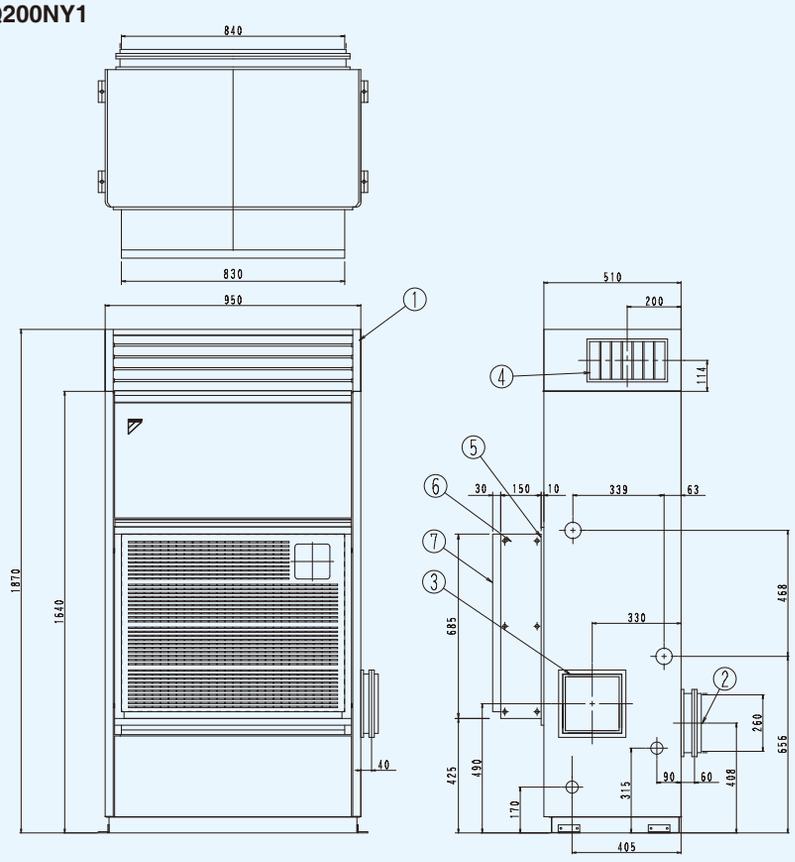


NOTE)1. FOR③, ④IT IS ABLE TO BE CONNECTED TO BOTH SIDE(RIGHT AND LEFT).

ITEM	PART NAME	REMARK
7	SUCTION GRILLE	
6	FILTER CHAMBER FOR HIGH EFFICIENCY FILTER	
5	FRONT SUCTION BASE FLANGE	
4	DISCHAGE GRILL FOR PRENUM SIDE	
3	CONNECTION PORT WITH FLESH AIR INTAKE DUCT	
2	CONNECTION PORT WITH REAR SUCTION DUCT	
1	PLENUM CHAMBER	

3D083638B

FXVQ200NY1



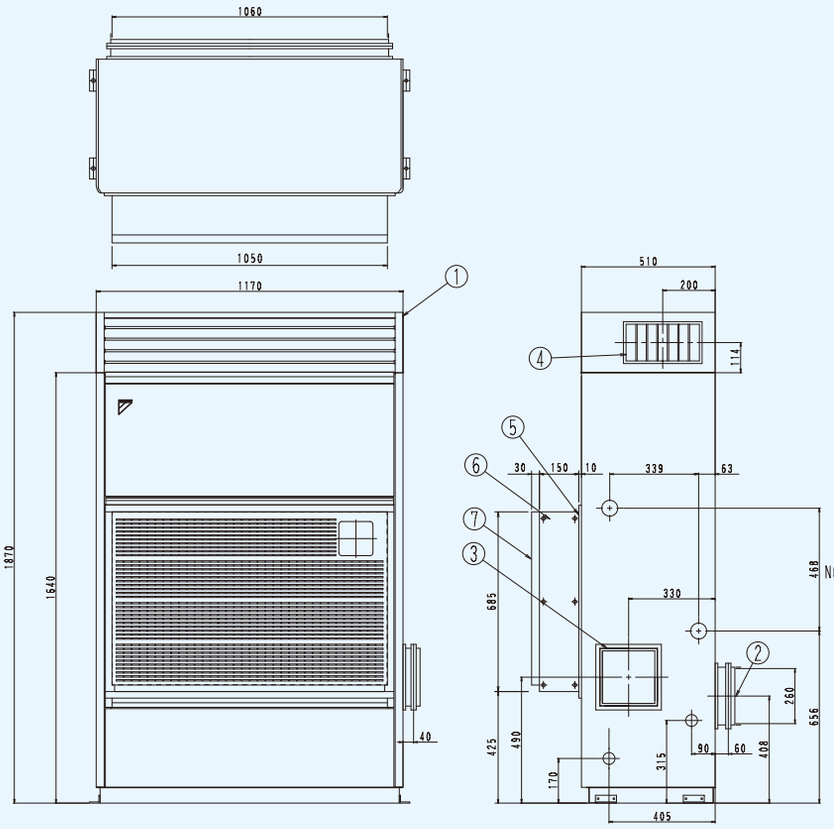
NOTE)1. FOR③, ④IT IS ABLE TO BE CONNECTED TO BOTH SIDE(RIGHT AND LEFT).

ITEM	PART NAME	REMARK
7	SUCTION GRILLE	
6	FILTER CHAMBER FOR HIGH EFFICIENCY FILTER	
5	FRONT SUCTION BASE FLANGE	
4	DISCHAGE GRILL FOR PRENUM SIDE	
3	CONNECTION PORT WITH FLESH AIR INTAKE DUCT	
2	CONNECTION PORT WITH REAR SUCTION DUCT	
1	PLENUM CHAMBER	

3D083639B

Dimensions of Optional Accessories

FXVQ250NY1

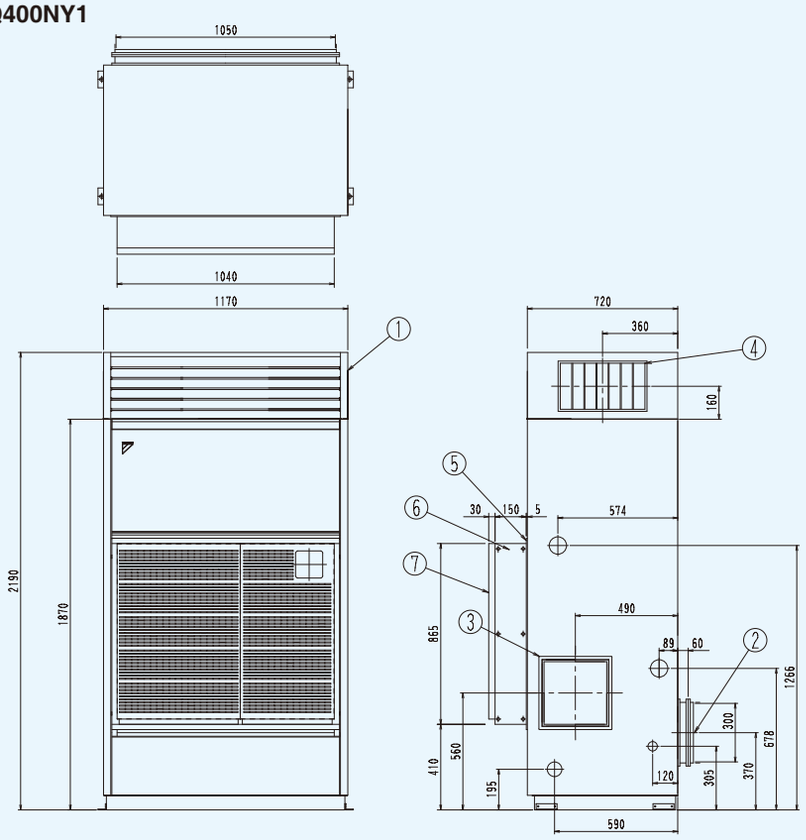


NOTE)1. FOR③, ④IT IS ABLE TO BE CONNECTED TO BOTH SIDE(RIGHT AND LEFT).

ITEM	PART NAME	REMARK
7	SUCTION GRILLE	
6	FILTER CHAMBER FOR HIGH EFFICIENCY FILTER	
5	FRONT SUCTION BASE FLANGE	
4	DISCHAGE GRILL FOR PRENUM SIDE	
3	CONNECTION PORT WITH FLESH AIR INTAKE DUCT	
2	CONNECTION PORT WITH REAR SUCTION DUCT	
1	PLENUM CHAMBER	

3D083640B

FXVQ400NY1



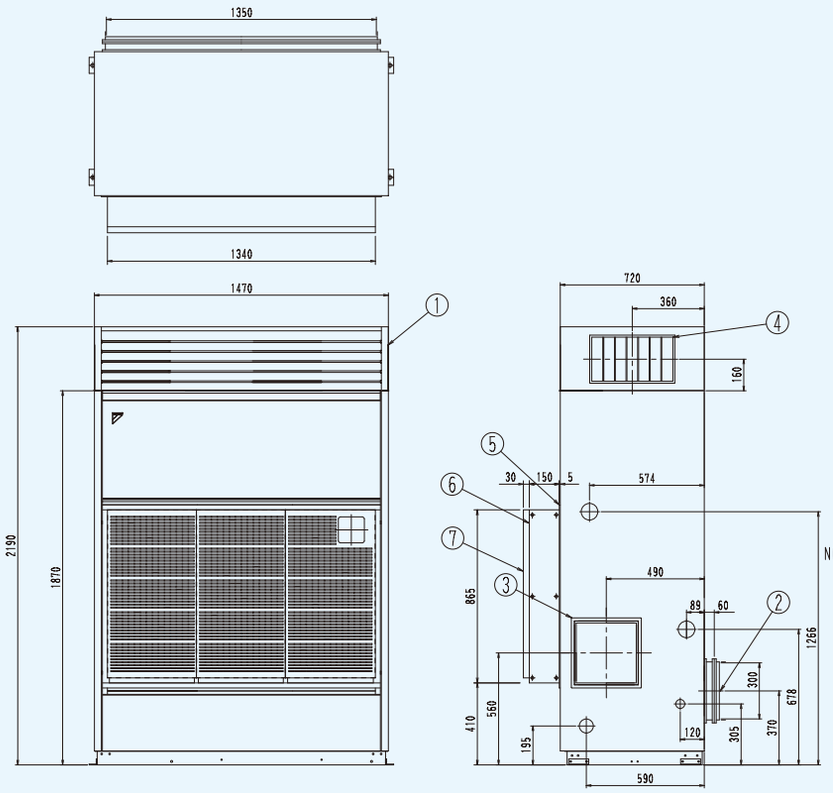
NOTE)1. FOR③, ④IT IS ABLE TO BE CONNECTED TO BOTH SIDE(RIGHT AND LEFT).

ITEM	PART NAME	REMARK
7	SUCTION GRILLE	
6	FILTER CHAMBER FOR HIGH EFFICIENCY FILTER	
5	FRONT SUCTION BASE FLANGE	
4	DISCHAGE GRILL FOR PRENUM SIDE	
3	CONNECTION PORT WITH FLESH AIR INTAKE DUCT	
2	CONNECTION PORT WITH REAR SUCTION DUCT	
1	PLENUM CHAMBER	

3D083641B

Dimensions of Optional Accessories

FXVQ500NY1

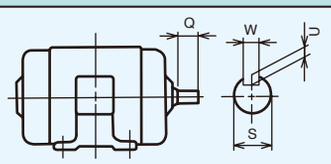
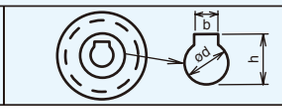


NOTE)1. FOR③, ④IT IS ABLE TO BE CONNECTED TO BOTH SIDE(RIGHT AND LEFT).

ITEM	PART NAME	REMARK
7	SUCTION GRILLE	
6	FILTER CHAMBER FOR HIGH EFFICIENCY FILTER	
5	FRONT SUCTION BASE FLANGE	
4	DISCHAGE GRILL FOR PRENUM SIDE	
3	CONNECTION PORT WITH FLESH AIR INTAKE DUCT	
2	CONNECTION PORT WITH REAR SUCTION DUCT	
1	PLENUM CHAMBER	

3D085670A

Fan Motor Specifications

Items			Rated motor output	0.75	1.5	2.2	3.7	5.5
Motor			1. Shaft outer diameter φS	19	24	28	28	38
			2. Shaft length Q	40	50	60	60	80
			3. Keyway width W	6	8	8	8	10
			4. Keyway depth U	3.5	4	4	4	5
			c sn s o ai t a l u s n E . 5	E	E	E	E	B
V Pulley	Type A and type B		1. Shaft hole diameter φd	19	24	28	28	38
			y a w y e K . 2 6	8	8	8	8	0 1
			3. Keyway height h	21.5	27	31	31	41

How to Select Motor Pulley

1. Select the fan revolution speed by air flow rate and external static pressure.
2. Select Motor Pulley by Fan revolution speed.

$$D_1 = \frac{D_2 \times N_2}{N_1}$$

D_1: Pitch Diameter of Motor Pulley (mm)
D_2: Pitch Diameter of Fan Pulley (mm)
N_1: Revolution Speed of Fan Motor (rpm)
N_2: Fan Revolution Speed

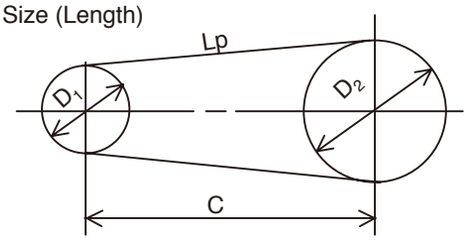
Relation between outer diameter and pitch diameter of each Pulley are as follows:

A type (Pitch Diameter) = Outer Diameter of Pulley - 9mm
B type (Pitch Diameter) = Outer Diameter of Pulley - 11mm
Please use the value given for the fan motor revolution speed (4 pole).
50Hz……1450 rpm

■ **How to Select V belt**

When changing the motor pulley, the standard V belt may not be used.
In that case, select V belt in accordance with the following formula:

V-belt Size (Length)



$$Lp = 2C + 1.57\,(D_1 + D_2) + \frac{(D_2 - D_1)^2}{4C}$$

Lp : Effective Center Periphery Length (mm)
D_1 : Pitch Diameter of Motor Pulley (mm)
D_2 : Pitch Diameter of Fan Pulley (mm)
C : Distance between the shafts of the pulleys (mm)

Note: The unit of V belt length (Nominal number) is usually shown in "inch".

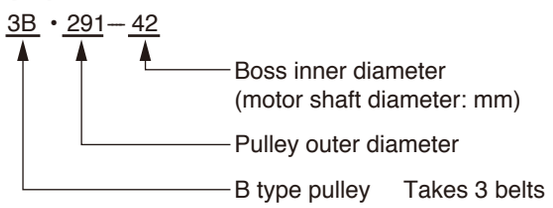
■ **Distance between the shafts of the pulleys (C)**

Unit: mm

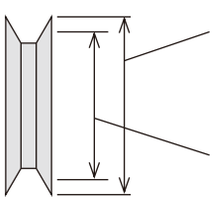
50Hz	
FXVQ125NY1	326
FXVQ200NY1	325
FXVQ250NY1	330
FXVQ400NY1	245
FXVQ500NY1	232

Refer to each **Fan Characteristics** drawing for the latest value.

■ **Pulley Specification**



The pulley makers give the pulley size using the pitch diameter, while Daikin uses the pulley outer diameter.



Pulley outer diameter
At Daikin, the outer diameter is used in pulley sizes.

Pitch Diameter (the actual diameter of the parts in contact with the belt)
The pulley makers often use the pitch diameter in pulley sizes.

When using air conditioners in duct connection, external static pressure and airflow rate will increase, exceeding the range of use for standard motors and pulleys. Therefore, it is necessary to change the motor or pulley to deal with this.

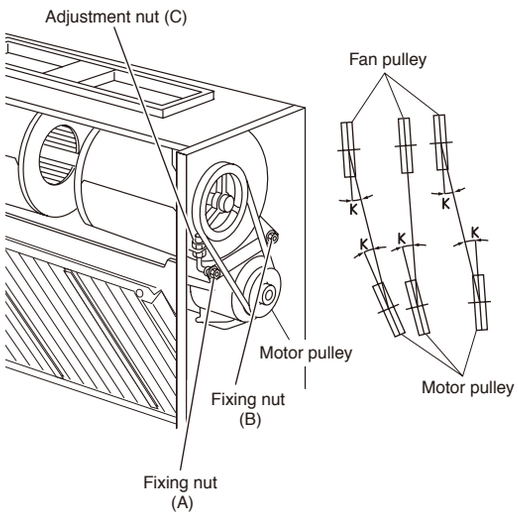
Pulley and Fan Belt Adjustment

Warning Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

In case of FXVQ125 / 200 / 250N

Operating procedures

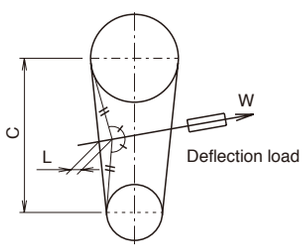
Following the installation manual, remove the front panel and others.



■ **Parallelism criteria (K)**
Less than 10 arc-minutes
(discrepancies of 3mm per 1m)

■ **Tension of V belt**

- Tension of a V belt must meet the deflection load (W) as shown.
  Calculate the required deflection length (L) by the equation (1), its tolerance must be within the range as below.



L= 0.016 × C (mm) ———————— (1)
C: Distance between the shafts of the pulleys (mm)

Model	V belt	Number of belts	Motor output (kW)	Motor pulley diameter (mm)	Deflection load W (N) per single V belt
FXVQ125-250	Type A	1	5.7, 7.0	99 ~ 401	9.9 ~ 0.9
		1	5.7, 7.0	~ 401	2.3 ~ 0.21
		1	5.1	511 ~	3.6 ~ 8.41
		1	22, 5.1	~ 121	2.3 ~ 0.21

Note:

- When the new belt is used, adjust the tension to about 1.15 times the deflection load (W) shown above.
- When the belt has adopted to the pulley (after operating about 50 hours), adjust the tension to the load shown above.
  (Even if the adjustments are made on a new belt, check the load again as shown on the above table after the belt has adopted.)
- With or without replacing the pulley, check the deflection load when about 50 hours passed after the test operation.
- After replacing belt or pulley, conduct the test operation and check if there is no abnormal noise or vibration.

Refer to the JIS B 1854 (Pulley) and JIS K 6323 (V belt) for details. (JIS: Japanese Industrial Standards)

1. Take measurements

1) Measure the parallelism of the fan pulley and motor pulley.
2) Measure the tension of the fan belt.

2. Make adjustments

1) Secure the pulley parallelism by adjustment of the motor pulley position and adjustment of fixing nuts (A) (B).
2) Adjust the fan belt tension with adjustment nut (C).

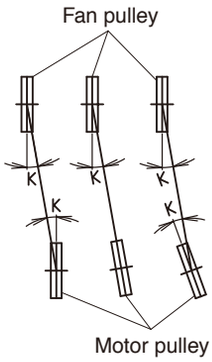
3. Perform checks

1) Check that the pulley parallelism and the fan belt tension are within the criteria.

In case of FXVQ400 / 500N

Operating procedures

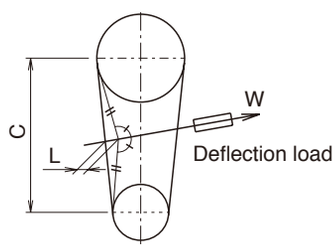
Following the installation manual, remove the front panel and others.



■ **Parallelism criteria (K)**
Less than 10"
(discrepancies of 3mm per 1m)

■ **Tension of V belt**

• Tension of a V belt must meet the deflection load (W) as shown.
Calculate the required deflection length (L) by the equation (1), its tolerance must be within the range as below.



L= 0.016 × C (mm) ———————— (1)
C: Distance between the shafts of the pulleys (mm)

Model	V belt	Number of belts	Motor output (kW)	Motor pulley diameter (mm)	Deflection load W (N) per single V belt
FXVQ400 / 500	Type B	1	2.2	A e z i s y	n 9.02 ~ 0.91
		1	3.7	~136	30.0~33.0
		1	3.7	143~161	25.4~27.9
		1	3.7	171~	21.1~23.2
		2	3.7, 5.5	Any size	19.0~20.9

Note:

• When the new belt is used, adjust the tension to about 1.15 times the deflection load (W) shown above.
• When the belt has adopted to the pulley (after operating about 50 hours), adjust the tension to the load shown above.
(Even if the adjustments are made on a new belt, check the load again as shown on the above table after the belt has adopted.)
• With or without replacing the pulley, check the deflection load when about 50 hours passed after the test operation.
• After replacing belt or pulley, conduct the test operation and check if there is no abnormal noise or vibration.

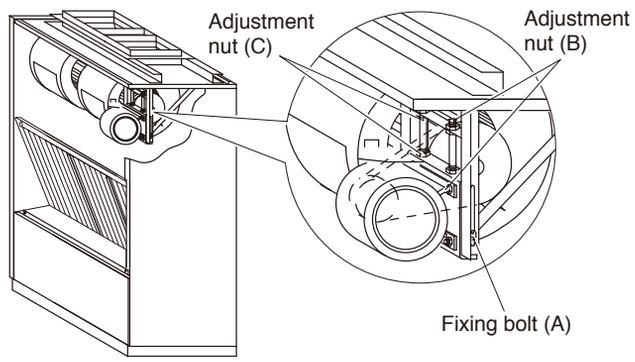
Refer to the JIS B 1854 (Pulley) and JIS K 6323 (V belt) for details. (JIS: Japanese Industrial Standards)

1. Take measurements

1) Measure the parallelism of the fan pulley and motor pulley.
2) Measure the tension of the fan belt.

2. Make adjustments

1) Secure the pulley parallelism by adjustment of the motor pulley position and adjustment of fixing bolt (A).
2) Adjust the fan belt tension by loosening fixing bolt (A) and using adjustment nut (B), (C).



3. Perform checks

1) Check that the pulley parallelism and the fan belt tension are within the criteria.

V Belt Size Table

Refer to the JIS K 6323 (V belt) for details. (JIS: Japanese Industrial Standards)

(Unit: mm)

Nominal number	Type A	Type B
20	508	—
21	533	—
22	559	—
23	584	—
24	610	—
25	635	635
26	660	660
27	686	686
28	711	711
29	737	737
30	762	762
31	787	787
32	813	813
33	838	838
34	864	864
35	889	889
36	914	914
37	940	940
38	965	965
39	991	991
40	1016	1016
41	1041	1041
42	1067	1067
43	1092	1092
44	1118	1118
45	1143	1143
46	1168	1168
47	1194	1194
48	1219	1219

Nominal number	Type A	Type B
49	1245	1245
50	1270	1270
51	1295	1295
52	1321	1321
53	1346	1346
54	1372	1372
55	1397	1397
56	1422	1422
57	1448	1448
58	1473	1473
59	1499	1499
60	1524	1524
61	1549	1549
62	1575	1575
63	1600	1600
64	1626	1626
65	1651	1651
66	1676	1676
67	1702	1702
68	1727	1727
69	1753	1753
70	1778	1778
71	1803	1803
72	1829	1829
73	1854	1854
74	1880	1880
75	1905	1905
76	1930	1930
77	1956	1956

Nominal number	Type A	Type B
78	1981	1981
79	2007	2007
80	2032	2032
81	2057	2057
82	2083	2083
83	2108	2108
84	2134	2134
85	2159	2159
86	2184	2184
87	2210	2210
88	2235	2235
89	2261	2261
90	2286	2286
91	2311	2311
92	2337	2337
93	2362	2362
94	2388	2388
95	2413	2413
96	2438	2438
97	2464	2464
98	2489	2489
99	2515	2515
100	2540	2540
102	2591	2591
105	2667	2667
108	2743	2743
110	2794	2794
112	2845	2845
115	2921	2921

Nominal number	Type A	Type B
118	2997	2997
120	3048	3048
122	3099	3099
125	3175	3175
128	3251	3251
130	3302	3302
132	—	3353
135	3429	3429
138	—	3505
140	3556	3556
142	—	—
145	3683	3683
148	—	—
150	3810	3810
155	3937	3937
160	4064	4064
165	4191	4191
170	4318	4318
175	—	4445
180	4572	4572
185	—	4699
190	—	4826
195	—	4953
200	—	5080
210	—	5334

Air Treatment Equipment

Data and Notice in Using the Outdoor-Air Processing Mode

■ **The FXVQ-series can be modified to the following operation mode.**

- Outdoor air processing mode

It supports cooling and heating operations by introducing outdoor air.

(In this outdoor-air processing mode, you cannot control the room temperature.
If you need to do so, please use this mode with another air conditioning unit for room temperature control.)

- The combination with an outdoor unit is limited to one indoor unit and one set of outdoor unit (including multiple connection of outdoor units). The connection of multiple floor standing duct units is prohibited. Connection of floor standing duct units and other type of indoor units mixed together is prohibited.
- When the outdoor-air processing mode is selected, the airflow range is limited. If the airflow exceeds the specified range, the product may stop abnormally. On the other hand, if the airflow falls below the specified range, the equipment reliability may decrease. For details, please see the "■ Airflow range" section.
- When the outdoor-air processing mode is selected, the machine controls the operation so that the temperature of the discharge air becomes closer to the preset temperature of the control panel. However, if the air-conditioning load is too large or too small, the discharge air temperature may not become closer to the preset temperature.

■ **Airflow range**

Please set the airflow according to each operation mode. When selecting a pulley, please see "Fan characteristics (For Pully Selection)".

Operation mode	Airflow range (m^3/min); The value in ( ) is the rated airflow.				
	FXVQ125NY1	FXVQ200NY1	FXVQ250NY1	FXVQ400NY1	FXVQ500NY1
Standard operation mode	28 - 50 (43)	42 - 76 (69)	63 - 96 (86)	80 - 144 (134)	120 - 200 (165)
Outdoor-air processing mode	25 - 29 (27)	38 - 44 (41)	48 - 56 (52)	72 - 85 (78)	99 - 116 (107)

■ **Option models of the rear side air inlet**

When outdoor air is taken in from the rear side of the indoor unit in the outdoor-air processing mode, please prepare the following option (Rear Suction Kit). For the shape and external dimension for the main unit attachment of this kit, please see "Detail of Optional Accessories". Please remove the air inlet protection gauze of the main unit when attaching a front shield plate.

	FXVQ125NY1	FXVQ200NY1	FXVQ250NY1	FXVQ400NY1	FXVQ500NY1
Option model name	KDFJ905A140	KDFJ905A200	KDFJ905A280	KDFJ905A400	KDFJ905A560

■ **Temperature setting range**

The temperature you can set varies in each operation mode.

e d	o m n o i t a r e p O	Cooling
e d	o m n o i t a r e p o d r	15 - 32°C at S
Outdoor-air processing mode	15 - 27°C(controlled by the discharge air temperature)	

Note : The setting is not available in the fan operation mode.

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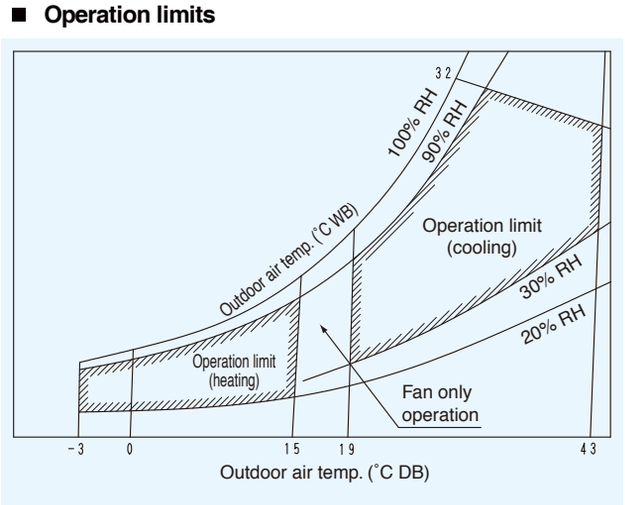
■ **Operation limits**



Note : 1. This diagram shows operation limits under the following conditions:
Indoor/Outdoor units - Equivalent piping length: 7.5 m
Level difference : 0 m
2. Field settings and airflow rate should be changed from the control panel.
(The airflow rate range is limited.)
3. Use the unit at indoor and outdoor air temperatures within the operation limits.
(Using the unit at temperatures outside the operation limit may cause it to malfunction or abnormal stop.)
4. Discharge air temperature can be set from the control panel, but may not reach the set temperature depending on outdoor air conditions or equipment protection control. (Particularly in heating operation, discharge air temperature may come close to room temperature and make you feel cold.)
5. Room temperature cannot be controlled while in outdoor-air processing mode. If room temperature needs to be controlled, use other room temperature control air conditioner in combination.

■ Field settings

[In case of *VRV* IV]

Be sure to set from both **(a) Field settings from the indoor unit** and **(b) Field settings from the outdoor unit**.

(a) Field settings from the indoor unit

You need to configure the settings by the control panel of the indoor unit to change the operation mode.
Please configure the settings as shown below after completing test run.
Please also see the installation manual of the indoor unit for the setting method.

Operation mode	Mode No.	First code No.	Second code No.
Standard operation mode	4 1	8	01
Outdoor-air processing mode			03

(b) Field settings from the outdoor unit

Perform field settings with push button switch (BS1-3) on the Printed Circuit Board in the Electric Component Box.
After finishing check operation, set up according to following procedure.
As to setting method, refer to the paragraph of Field Setting in the installation manual of the outdoor unit as well.

Procedure of outdoor-air processing mode setting	Details of setting	7 Segment display		
		SEG1	SEG2	SEG3
1. Push the new page button (BS1) for 5 seconds in normal mode. Confirm that 7 segment display is same as the figure shown in the right.	Switched to Setting mode.	2	0	0
2. Push the operation button (BS2) and adjust the 7 segment display to the figure shown in the right.	"Outdoor-air processing mode"	2	9	3
3. Push the confirmation button (BS3).		The present settings of [4.] will be indicated.		
4. Push the operation button (BS2) and adjust the 7 segment display to the figure shown in the right.	"Invalid" (factory set)	light off	light off	0
	"Valid"	light off	light off	1
5. Push the confirmation button (BS3).	The setting in [4.] is defined.	It will turn to light ON.		
6. Push the confirmation button (BS3) again.	The system starts the operation according to the setting.	2	0	0
7. Push the new page button (BS1).	Returned to Normal mode.	light off	light off	light off

[In case of *VRV* III]

Set from **(a) Field settings from the indoor unit** only.

(a) Field settings from the indoor unit

You need to configure the settings by the control panel of the indoor unit to change the operation mode.
Please configure the settings as shown below after completing test run.
Please also see the installation manual of the indoor unit for the setting method.

Operation mode	Mode No.	First code No.	Second code No.
Standard operation mode	4 1	8	01
Outdoor-air processing mode			03

■ Specification table (outdoor-air processing mode)

Model name			FXVQ125NY1	FXVQ200NY1	FXVQ250NY1	FXVQ400NY1	FXVQ500NY1
Cooling capacity [1]		kW	14.0	22.4	28.0	45.0	56.0
Fan	Airflow rate [2]	m^3/min	27	41	52	78	107
	External static pressure [3]	Pa	120	150	120	261	175

Note : [1]Indoor temperature: 33°CDB, 28°CWB / outdoor temperature: 33°CDB / Equivalent piping length: 7.5 m, level difference: 0 m.

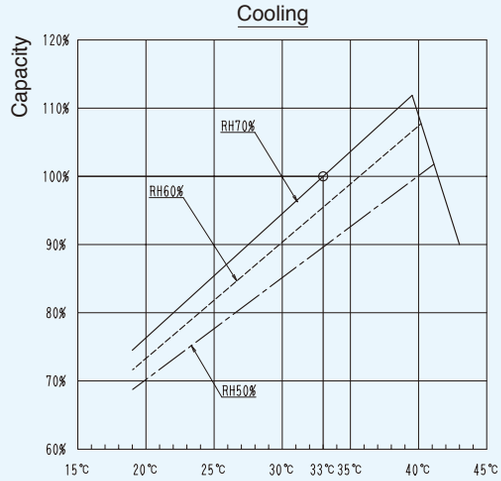
[2]This product is shipped with the airflow set to the standard mode. When introducing outdoor air (outdoor-air processing mode), please make sure to adjust the air flow by conducting field settings from the control panel, changing the pulley, or installing dampers. If not adjusting the airflow, the airflow would still be set to the standard mode and therefore you might feel cold when heating or feel hot when cooling.

[3]The value is the external static pressure with standard pulley.

■ Capacity characteristics

Capacity characteristics (outdoor-air processing mode)

Cooling



) B D (e r u t a r e p m e t r o o d t u O

Note) 1. The characteristics in this chart indicates values under the following conditions.

Equivalent piping length	: 7.5 m
Level difference	: 0.0 m
Airflow rate	: Rated
Static pressure	: Rated
Gas pipe	: Below table

Gas pipe diameter	Model name
φ15.9	125 Type
φ19.1	200 Type
φ22.2	250 Type
φ28.6	400 · 500 Type

2. ○ mark represents a rated point. Please read the value multiplied by the capacity in the specification.
3. The capacity characteristics at heating does not include capacity changes at frost accumulation (including defrosting operation).
4. The blowing air temperature may not become the preset temperature of the control panel due to capacity shortage, compressor control range or protection control for excessive capacity.
   (Especially in the heating operation, you might feel cold as the discharge air temperature becomes closer to the room temperature.)
5. Since you cannot control the room temperature in the outdoor-air processing mode, please use another air-conditioning unit for room temperature control together if you need to adjust the room temperature.

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CONTENTS

1. SAFETY PRECAUTIONS

Be sure to follow this "SAFETY PRECAUTIONS".
This product comes under the term "appliances not accessible to the general public".

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

This manual classifies the precautions into WARNINGS and CAUTIONS.
Be sure to follow all the precautions below: They are all important for ensuring safety.

⚠ WARNING ..... Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION..... Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

- After the installation is completed, test the air conditioner and check if the air conditioner operates properly. Give the user adequate instructions concerning the use and cleaning of the indoor unit according to the Operation Manual. Ask the user to keep this manual and the Operation Manual together in a handy place for future reference.

⚠ WARNING

- Ask your local dealer or qualified personnel to carry out installation work.
  Improper installation may result in water leakage, electric shocks or a fire.
- Perform installation work in accordance with this installation manual.
  Improper installation may result in water leakage, electric shocks or a fire.
- Consult your local dealer regarding what to do in case of refrigerant leakage.
  When the air conditioner is installed in a small room, it is necessary to take proper measures so that the amount of any leaked refrigerant does not exceed the concentration limit in the event of a leakage.
  Otherwise, this may lead to an accident due to oxygen deficiency.
- Be sure to use only the specified parts and accessories for installation work.
  Failure to use the specified parts may result in the air conditioner falling down, water leakage, electric shocks, a fire, etc.
- Install the air conditioner on a foundation that can withstand its mass.
  It may lead to vibration of indoor units and cause unpleasant chattering noise.
- Carry out the specified installation work in consideration of strong winds, typhoons, or earthquakes.
  Improper installation may result in an accident such as air conditioner falling.
- Make certain that all electrical work is carried out by qualified personnel according to the applicable legislation (note 1) and this installation manual, using a separate circuit.
  In addition, even if the wiring is short, make sure to use a wiring that has sufficient length and never connect additional wiring to make the length sufficient.
  Insufficient capacity of the power supply circuit or improper electrical construction may lead to electric shocks or a fire.
  (note 1) applicable legislation means "All international, national and local directives, laws, regulations and/or codes which are relevant and applicable for a certain product or domain".
- Earth the air conditioner.
  Do not connect the earth wiring to gas or water piping, lightning conductor or telephone earth wiring.
  Incomplete earthing may cause electric shocks or a fire.
- Be sure to install an earth leakage circuit breaker.
  Failure to do so may cause electric shocks and a fire.
- Disconnect the power supply before touching the electric components.
  If you touch the live part, you may get an electric shocks.
- Make sure that all wiring is secure, using the specified wiring and ensuring that external forces do not act on the terminal connections or wiring.
  Incomplete connection or fixing may cause an overheat or a fire.
- When wiring between the indoor and outdoor units, and wiring the power supply, form the wiring orderly so that the control box lid can be securely fastened.
  If the control box lid is not in place, overheat of the terminals, electric shocks or a fire may be caused.
- If refrigerant gas leaks during installation work, ventilate the area immediately.
  Toxic gas may be produced if refrigerant gas comes into contact with a fire.
- After completing the installation work, check to make sure that there is no leakage of refrigerant gas.
  Toxic gas may be produced if refrigerant gas leaks into the room and comes into contact with a source of a fire, such as a fan heater, stove or cooker.
- Never directly touch any accidental leaking refrigerant.
  This could result in severe wounds caused by frostbite.

⚠ CAUTION

- Install drain piping according to this installation manual to ensure good drainage, and insulate the piping to prevent condensation.
  Improper drain piping may cause water leakage, make the furniture get wet.

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- Install the air conditioner, power supply wiring, remote controller wiring and transmission wiring at least 1 meter away from televisions or radios to prevent image interference or noise.
  (Depending on the radio waves, a distance of 1 meter may not be sufficient to eliminate the noise.)
- Do not install the air conditioner in places such as the following:
  1. Where there is mist of oil, oil spray or vapour for example a kitchen.
     Resin parts may deteriorate, and cause them to fall out or water to leak.
  2. Where corrosive gas, such as sulfurous acid gas, is produced.
     Corrosion of copper pipings or brazed parts may cause the refrigerant to leak.
  3. Where there is machinery which emits electromagnetic waves.
     Electromagnetic waves may disturb the control system, and cause malfunction of the equipment.
  4. Where flammable gases may leak, where carbon fibre or ignitable dust is suspended in the air or where volatile flammables, such as thinner or gasoline, are handled.
     If the gas should leak and remained around the air conditioner, it may cause ignition.

2. BEFORE INSTALLATION

- Make sure to use the R410A refrigerant before the installation work.
  (Otherwise, the unit cannot operate normally.)
- For installation of outdoor unit, refer to the installation manual attached to the outdoor unit.
- Do not throw away the accessories required for installation until the installation is finished.

2-1 PRECAUTION

- Be sure to instruct the customer how to properly operate the system (particularly the cleaning of air filter, operation method, temperature adjusting method) showing the attached operation manual to the person.
- Do not install the unit where the atmosphere is salty such as near the seaside, where the voltage frequently fluctuates or in a vehicle or a boat.

2-2 ACCESSORIES

Check if the following accessories are included in the indoor unit.

Name	Connection pipings		Drain plug cap	Insulation for Drain plug	Clamp
Quantity	1 pc. (125-250 type)	For each 1 pc. (400 · 500 type)	1 pc.	1 pc.	3 pcs.
Shape	 (Gas piping)	 (Liquid piping)  (Gas piping)			
Location	Partition plate				

Name	Bolts (for flanges)			
Quantity	14 pcs. (125 · 200 type)	30 pcs. (250 type)	18 pcs. (400 type)	36 pcs. (500 type)
Shape	 M8×20			
Location	Partition plate (However, 2 bolts and 2 nuts are used for flange temporary fixing.)			

Name	Nuts (for flanges)				[Others] • Operation manual • Installation manual
Quantity	14 pcs. (125 · 200 type)	30 pcs. (250 type)	18 pcs. (400 type)	36 pcs. (500 type)	
Shape	 M8				
Location	Partition plate (However, 2 bolts and 2 nuts are used for flange temporary fixing.)				Stay for control panel

2-3 CARRY OUT THE WORK GIVING CAUTION TO THE FOLLOWING ITEMS AND AFTER THE WORK IS COMPLETED CHECK THESE AGAIN.

1. Items to be checked after the installation work is completed

Items to be checked	In case of defective	Check column
Are the air conditioner rigidly fixed?	Drop · vibration · noise	
Are the installation work of the air conditioner complete?	Does not operate · burnout	
Have you carried out a leakage test with the test pressure specified in the outdoor unit installation manual?	Does not cool / Does not heat	
Is the insulation of refrigerant piping and drain piping completely carried out?	Water leakage	
Does the drain flow out smoothly?	Water leakage	
Is the power supply voltage identical to that stated in the manufacturer's label on the air conditioner?	Does not operate · burnout	
Are you sure that there is no wrong wiring nor piping or no loose wiring?	Does not operate · burnout	
Is earthing completed?	Danger in case of leakage	
Are the sizes of electric wiring according to the specification?	Does not operate · burnout	
Is any of air outlets or inlets of the air conditioner blocked with obstacles? (It may lead to capacity drop due to fan speed drop or malfunction of equipment.)	Does not cool / Does not heat	
Have you recorded the refrigerant piping length and the refrigerant charge added?	Refrigerant charge amount is not clear	
Is the external static pressure set properly?	Error "A6" / Does not operate	

Make sure to recheck the items of "SAFETY PRECAUTIONS".

2. Items to be checked at delivery

Items to be checked	Check column
Have you carried out field setting? (if necessary)	
Are the control box lid, the air filter and the suction grille attached?	
Does the cool air discharge during the cooling operation and the warm air discharge during heating operation?	
Have you explained how to operate the air conditioner showing the operation manual to the customer?	
Have you explained the description of cooling and heating given in the operation manual to the customer?	
Have you handed the operation manual and the installation manual to the customer?	

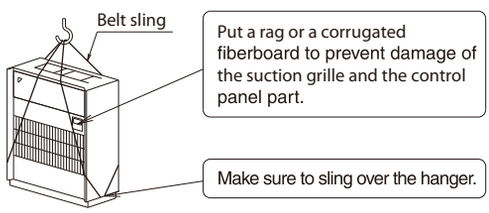
Points of the operation explanation

In addition to the general usage, since the items in the operation manual with the ⚠ WARNING and ⚠ CAUTION marks are likely to result in human bodily injuries and property damages, it is necessary not only to explain these items to the customer but also to have the customer read them.
It is also necessary to explain the items of "NOT MALFUNCTION OF THE AIR CONDITIONER" to the customer and have the customer read them carefully.

3. CARRY-IN METHOD

Note
Do not throw away the accessories required for installation until the installation is finished.

- Choose the carry-in route of the indoor unit.
- When lifting the unit with a crane, use belt sling and **perform lifting the unit as shown in the figure below.**



4. INSTALLATION SITE

Note
Do not apply force on the resin parts in case of carrying the indoor unit when and after unpacking.

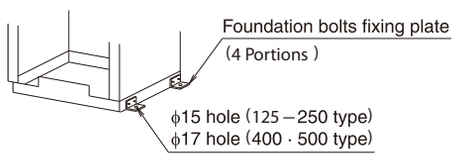
(1) Select an installation site where the following conditions are satisfied and obtain the customer's approval before installation.
- The foundation is strong enough to support the weight of the unit and the floor is flat to prevent vibration and noise generation.
- The place where the cold (warm) air is spread all over the room.
  (In case of free blow by the plenum chamber)
- The place where the condensate can be properly drained.
- The place where there is no possibility of flammable gas leak.
- The place where is not heat affected by other heating equipment.
- The space around the unit is adequate for servicing and the minimum space for air inlet and air outlet is available.
- The place where the piping length between indoor unit and outdoor unit is within the allowable limit.
  (Refer to the installation manual attached to the outdoor unit.)

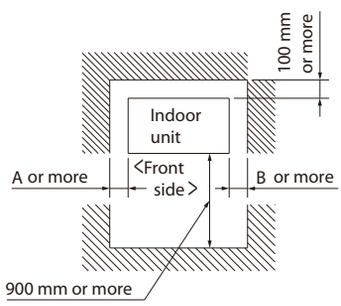
(2) After installation, remove the shipping brackets attached to the bottom frame.
(3) Secure the unit to its base using foundation bolts.

4-1 EXAMPLE OF REQUIRED SPACE

- Select a suitable pattern from the figure below according to local space in view of walkway and ventilation when installing.
  (If the given field space fails to meet the conditions of work in this figure, contact the dealer.)

Piping connection	A	B
Left side	500 mm	100 mm
Right side	100 mm	500 mm





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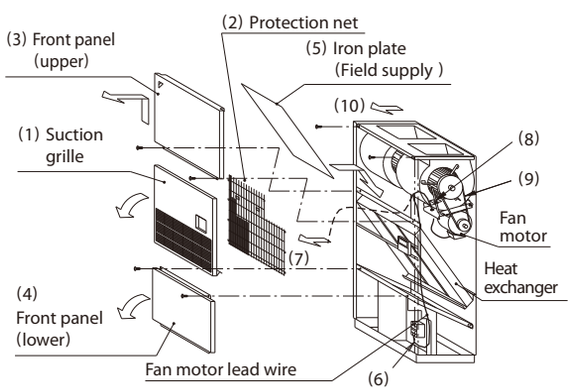
5. CAUTION AT INSTALLATION

5-1 HOW TO REPLACE PULLEY

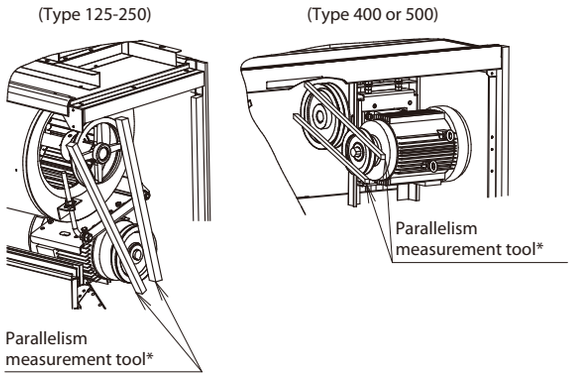
<125-250 type>
(1) Remove the suction grille.
(2) Remove the protection net. Then remove the cushioning material on the protection net.
(3) Remove the front panel (upper).
(4) Remove the front panel (lower).
(5) Put the iron plate, which must be wider than the fan motor, under the fan motor, and on the heat exchanger for protection for its fin. (Iron plate must be supplied in the field.)
(6) Remove the terminal for the fan motor lead wire from the magnet switch.
(7) Pull out the fan motor lead wire to the fan housing parts, and let it out of the unit from the opening part on the front plate (upper).
(8) Remove the nuts of the motor base.
(9) Remove the belt. Hold the fan motor base firmly when working so that it may not move suddenly.
(10) Slide the fan housing assembly on the iron plate on which the fan motor is put (the above procedure (5)) frontward slowly. Work must be conducted by more than 3 persons. One of them must hold the motor base, and two or more of them must hold the fan housing.
(11) Move the fan housing assembly to the location where can be worked and replace the pulley.
(12) After replacing, follow the above procedure in the reverse order.

<400 · 500 type>
Follow the above procedure (1)-(4), (6), (7), (10), (11), (12) in the order.

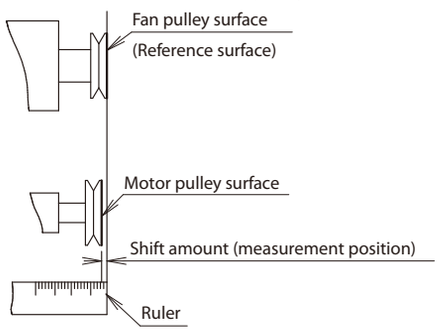


5-2 PARALLELISM OF PULLEY

- Adjust the parallelism between fan pulley and motor pulley by measuring the upper and lower points of the V belt as the following figures so as to satisfy the value in the following table.



- Adopt the surface of the fan pulley side as a reference surface.
- Consider the difference of the thickness of a pulley at the shift amount measurement when using a pulley having different thicknesses like variable pulley.



Shift amount of pulley's inter-shaft distance

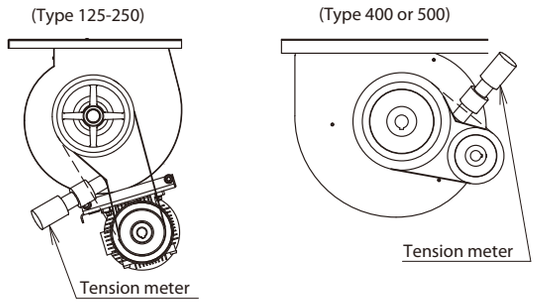
Inter-shaft distance (mm)	Shift amount (mm)
200 - 350	1.0 or less
350 - 450	1.5 or less

Note
Use a metal ruler, L shape ruler or the like which is measureable the straight line as a parallelism measurement tool.

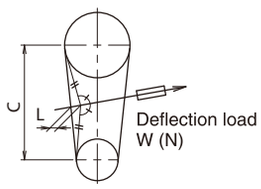
5-3 TENSION OF V BELT

Note
Be sure to conduct a trial operation after replacing the belt and pulley to check the sound and vibration.
- Be sure to adjust the tension of the V belt when replacing the belt and pulley.
- Be sure to re-adjust the tension of the V belt when roughly 50 hours after the first trial operation or after replacing the belt and pulley (after the belt gets to fit).

<How to adjust the tension>
(1) Calculate a proper deflection length (L) by formula [1].
(2) Measure necessary deflection load when the length (L) of the above (1) is given to the V belt. (See the following figures.)
(3) Adjust the inter-shaft distance of the pulley so that the deflection load of the above (2) becomes within the following table range.
(4) Repeat the above step (2) and (3) until the deflection load becomes within the table range.



Measure the deflection load (W) while pressing down the tension meter vertically to the midpoint of the belt until it indicates with the proper deflection length (L).



L=0.016×C ——— [1]
L: Deflection length (mm)
C: Inter-shaft distance of pulley (mm)
(actual measurement)

Note
Increase 1.15 times of the following deflection load (W) at the initial tensioning when the belt is renewed.

Belt type	Qty	Motor output (kW)	Motor pulley diameter (mm)	Deflection load W (N) per belt
A	1	0.75	- 99	9.0 – 9.9
	1	0.75	104 -	12.0 – 13.2
	1	1.5	- 115	14.8 – 16.3
	1	1.5, 2.2	121 -	12.0 – 13.2
B	1	2.2	Any	19.0 – 20.9
	1	3.7	- 136	30.0 – 33.0
	1	3.7	143 - 161	25.4 – 27.9
	1	3.7	171 -	21.1 – 23.2
	2	3.7, 5.5	Any	19.0 – 20.9

6. REFRIGERANT PIPING

- For the refrigerant piping of the outdoor unit, refer to the installation manual attached to the outdoor unit.
- Make sure to use R410A as refrigerant before the installation work. (Otherwise, the unit cannot operate normally)
- Make sure to insulate the piping on both the liquid side and the gas side. Otherwise, water leakage may be caused. Use a heat insulating material sufficiently resistant to 120 °C. Reinforce the refrigerant piping according to the installation environment. Otherwise, condensation may form on the surface of the insulation.

⚠ CAUTION

This unit is for using R410A only.
Make sure to follow the items as shown in below when working.

- **Use the pipe cutter and the flaring tool that are** exclusively used for R410A.
- **At flare connection, apply ETHER oil or ESTER oil to the flare section.**
- Protect the piping by a pinch or taping to prevent invasion of contamination, moisture and dusts into the piping.

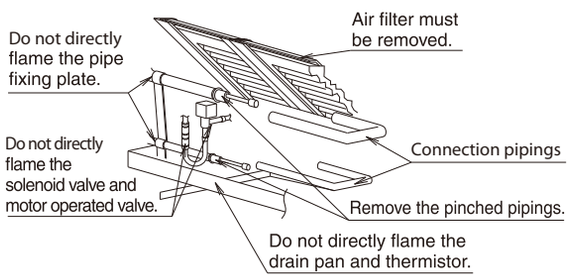
6-1 MATERIAL OF PIPING

- Use the copper tube according to the following table.

Indoor unit capacity	Piping size	
	Piping on gas side	Piping on liquid side
125 type	ϕ15.9 × t1.0 mm	ϕ9.5 × t0.8 mm
200 type	ϕ19.1 × t1.0 mm	ϕ9.5 × t0.8 mm
250 type	ϕ22.2 × t1.0 mm	ϕ9.5 × t0.8 mm
400 type	ϕ28.6 × t1.0 mm	ϕ12.7 × t0.8 mm
500 type	ϕ28.6 × t1.0 mm	ϕ15.9 × t1.0 mm

6-2 HOW TO WORK THE REFRIGERANT PIPING

Remove the pinched pipings brazed to the end of the internal piping.
Braze and connect the standard accessory piping.



6-3 PIPING CONNECTION

⚠ CAUTION

Do not use anti-oxidants when brazing the piping joints.
Residue can clog pipings and break equipment.

- Be sure to perform a nitrogen blow when brazing
  (Brazing without performing nitrogen replacement or releasing nitrogen into the piping will create large quantities of oxidized film on the inside of the pipings, adversely affecting valves and compressors in the refrigerating system and preventing normal operation.)

Note
- For nitrogen replacement, refer to the installation work manual. (Contact the dealer.)
- When brazing pipes while flowing nitrogen, set the nitrogen pressure to 0.02 MPa or less using a pressure reducing valve (to the extent that your cheeks feel breeze).
- Do not use a flux when brazing the refrigerant system. Use phosphor copper brazing (BCup-2: JIS Z 3264/B-Cu93P-710 /795: ISO 3677) which does not require flux.
  (Using a chorine flux may cause the pipes to corrode, and if it contains fluoride, it may cause the refrigerant lubricant to deteriorate, adversely affecting the refrigerant piping system.)

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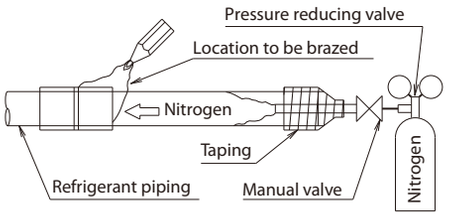
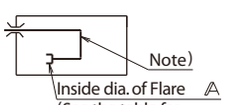
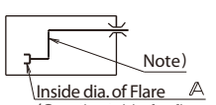
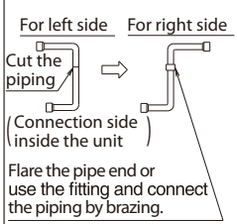


CAUTION

Do not let any refrigerant other than R410A enter the refrigerant system.
Ventilate if the refrigerant gas leaks during work.

6-4 PROCESSING METHOD OF CONNECTION PIPING

- See the following table for the Processing connection piping.
- For right side piping, replace the partition bush fixed on the right side panel with the bush for hole fixed on the left side panel.

	Left side piping connection	Right side piping connection
Piping on liquid side (125-250 type)	• Pass the piping from the hole on the left side into the unit, conduct sleeve flare process and brazed connection. 	• Pass the piping from the hole on the right side into the unit, conduct sleeve flare process and brazed connection. 
Piping on liquid side (400 · 500 type)	Connect the accessory pipes and bring them outside of the unit.	Modify the accessory left side piping and use it for the right side. 
Piping on gas side (125-500 type)		

6-5 THE TABLE FOR FLARE PART DIMENSIONS

Refer to the below table for flare part dimensions

(Unit: mm)

Indoor unit capacity	Piping size	Inside dia. of flare		Allowance of inserting part		Bend radius	Flare shape
	d0	d1	Tolerance	L	Tolerance		
125 type	ϕ9.5 xt0.8 or more	9.64	+0.1 0	7	+1.5 0	R18	C1220T 
200 type							
250 type							

Note

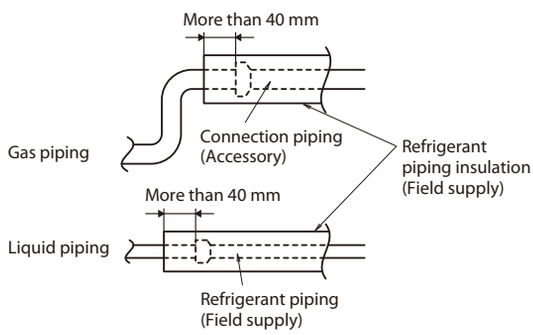
Braze by socket if sleeve flare process cannot be conducted.

CAUTION

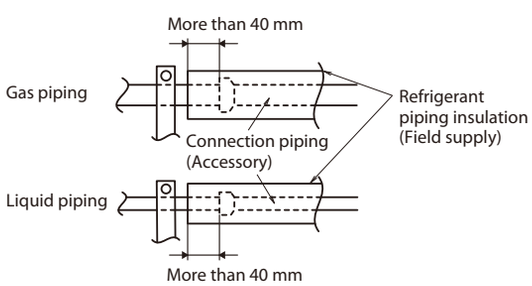
Thermal insulation of the field piping must be carried out including the piping connection parts. Otherwise, it may cause heat injury by condensation or connecting to the exposed piping.

- Secure the piping so that it does not touch the wiring.
- Insulation of pipes must be perfectly carried out without leaving any clearance to avoid condensation.
- When connecting liquid and gas connection pipings, insulate all the internal pipings with field supplied insulation material for refrigerant pipings. (See following sketch.)

<125-250 type>



<400 · 500 type>



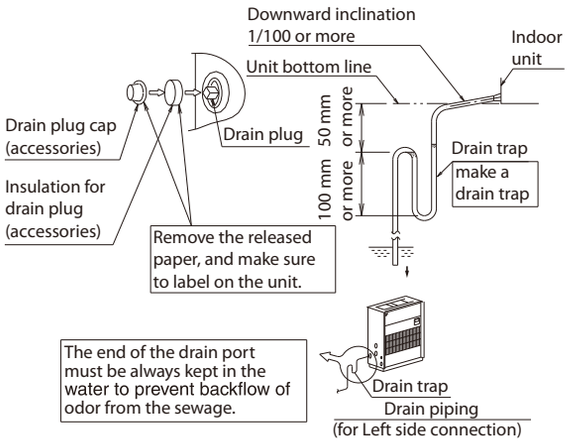
7. DRAIN PIPING

7-1 INSTALL DRAIN PIPING

- Install drain piping is order to ensure proper drainage and insulate piping in order to prevent condensation.
- Keep the piping length as short as possible and slope the pipe with a gradient of 1/100 or more. Do not create any air accumulated pocket in the piping.
- Use the pipe size equivalent or larger to the pipe connection size of the unit.
- The drain connection is available from both (left and right) sides.
- For the right side connection, change the drain plug from right to left.
- For piping goes through the indoor, make sure to insulate the indoor drain socket to the end of socket.
- When connecting the drain piping, insulate the drain plug on the opposite side of drain piping connection completely with the attached insulation.
- Always make a drain trap at the drain outlet.

Check

- After completion of drain piping, let water flow into the drain pan and check for drain and water leakage from the piping connection area.



⚠ CAUTION

- The connection of the drain piping
  Do not directly connect the drain piping to sewerage, which odor may smell like ammonia.
  Sewerage may contain it, which may pass through the drain piping, and result in corrosion of the indoor unit heat exchanger.

8. ELECTRIC WIRING

⚠ CAUTION

- Install earth leakage circuit breaker.
  It is our obligation to mount earth leakage circuit breaker in order to prevent accidents such as electric **shocks and/or fire.**

- All field wiring and components must be installed by a licensed electrician and must comply with relevant local and national regulations.
- Use copper conductors only.
- Be sure to install an earth leakage breaker.
  (Failure to install an earth leakage breaker may result in electric shocks, or fire.)
- Always earth wires. (In accordance with national regulations of the pertinent country.)
- Do not connect the earth wire to gas pipe, sewage pipe, lightning rods, or telephone earth wires.
  - Gas pipe: can explode or catch fire if there is a gas leak.
  - Sewage pipes: no earth effect is possible if hard plastic piping is used.
  - Telephone earth wires and lightning rods: dangerous when struck by lightning due to abnormal rise in electrical potential in the earth.
- The field wiring must be carried out in accordance with the wiring diagrams and the instructions given below.
- If the fan rotates reversely, change the connection of two power supply wires out of three.
- For connection to the terminal block, use ring type crimp style terminal suitable for the wire size.
- Do not close the branch switch and overcurrent circuit breaker until all the works are completed.

<Method of wiring for the wiring between indoor unit and outdoor unit, the earth wiring and the power supply wiring>

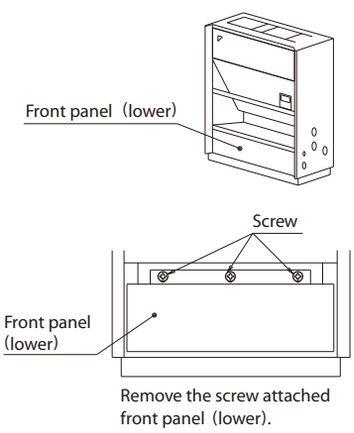
(1) Remove the front panel (lower).
(2) Fix the each wire on the control box with the attached clamp.
(3) For wiring specifications, refer to the [DETAILS OF STANDARD DEVICES].

⚠ CAUTION

Apply putty or insulation material (Field supply) without any clearance on the wiring intake section to prevent small animals from entering the unit.
(If small animals such as insects enter the inside of the unit, it may cause short circuit in the control box.)
Connect the wire securely using designated wire and fix it with attached clamp without applying external pressure on the terminal parts.
Make sure the wiring and the control box lid do not stick up above the structure, and close the control box lid firmly.

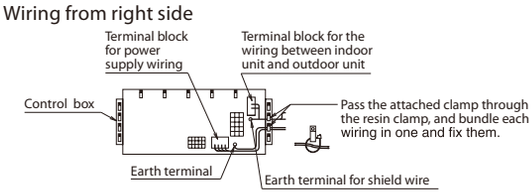
8-1 REMOVE THE FRONT PANEL (LOWER)

When removing the front panel (lower), there is the control box.

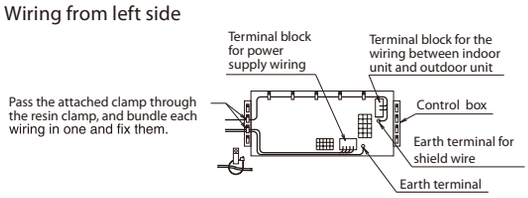


8-2 EXTERNAL WIRING METHOD

<125-250 type>
Wiring from right side



Wiring from left side



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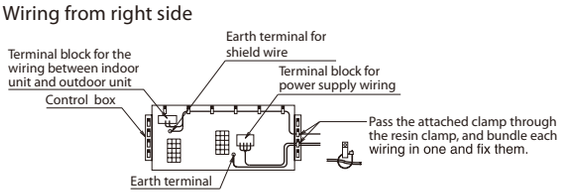
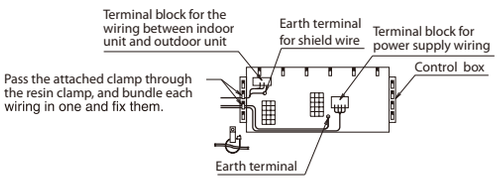
<400 · 500 type>

Wiring from right side



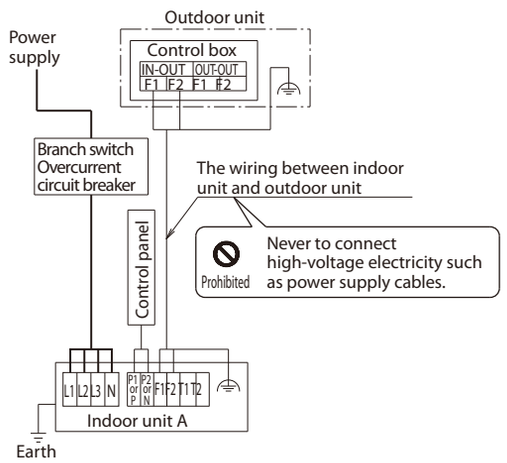
Wiring from left side



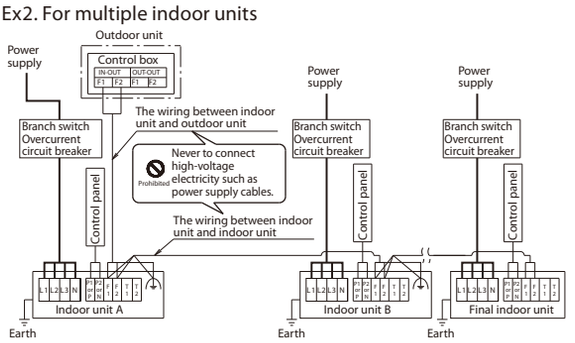
8-3 EXAMPLE OF WIRING

- The control panel is the standard built-in.

Ex1. When using in pairs



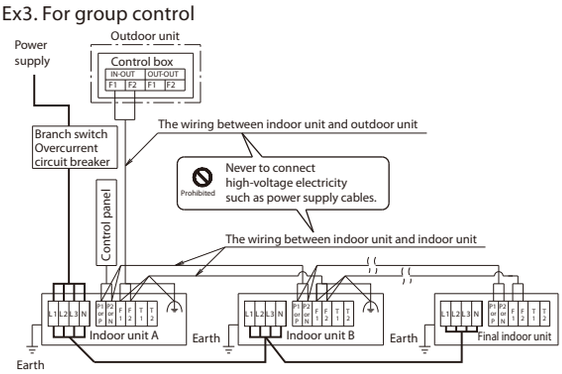
Ex2. For multiple indoor units



CAUTION

Do not have low-voltage wires (wiring between units) and other high-voltage run through the same locations, and there must be min. 50 mm distance between wires outside of the unit.
Or it may cause a malfunction or a breakdown of the unit by receiving electrical noise (external noise).

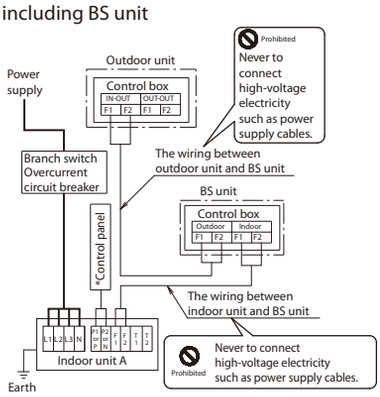
Ex3. For group control



Note

1. It is not necessary to set the indoor unit address for group control.
   (The setting is made automatically when the power supply is turned on.)
2. Make sure to disconnect the control panel wiring of the units over the second one.
3. In this case, all indoor units within the group are controlled by the control panel for the group control.

Ex4. When including BS unit

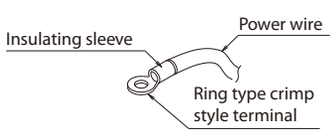


8-4 PRECAUTIONS WHEN LAYING POWER WIRING

Note

Use ring type crimp style terminals for connections to the power terminal block.
Install the insulating sleeve for insulation of crimp part.
When none are available, follow the instructions below.

- If stranded wires are used, do not solder the front end of the wires.
- Do not connect wiring of different size to the power terminal block. (Slack in the power wiring may cause abnormal heat.)
- When transmission wiring which is the same thickness, do as shown in the figure below.
- For wiring, use the designated power wire and connect firmly, then secure to prevent outside pressure being exerted on the terminal board.



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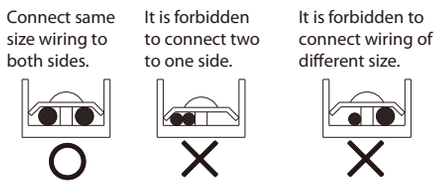


- Use an appropriate screwdriver for tightening the terminal screws.
  A screwdriver with a small head will strip the head and make proper tightening impossible.
- Over-tightening the terminal screws may break them.
- See the table below for tightening torque for the terminal screws.

	Tightening torque (N·m)
Terminal block for remote controller and transmission wiring (6 poles)	0.79-0.97
Terminal block for power supply (4 poles)	1.33-1.61
Earth Terminal	3.02-4.08

8-5 DETAILS OF STANDARD DEVICES

- Refer to the installation manual attached to the outdoor unit for the details of the wire gauge of the power supply to the outdoor unit, the earth leakage breaker, the circuit breaker capacity and wiring.
- Use only the wiring devices specified in the following table for the wiring between indoor unit and outdoor unit.
- Branch off the exclusive lines for power supply to the indoor unit according to the following specification.

1. Electrical characteristics

Indoor units				Power supply			Fan motor	
Model	Hz	Volts	Voltage range	MCA	TOCA	MFA	kW	FLA
FXVQ125NY1	50 Hz	380-415V	Max. 456V Min. 342V	2.5	2.0	16	0.75	2.0
FXVQ200NY1				4.4	3.6	16	1.5	3.5
FXVQ250NY1				4.4	3.6	16	1.5	3.5
FXVQ400NY1				9.9	8.0	25	3.7	7.9
FXVQ500NY1				9.9	8.0	25	3.7	7.9

MCA: Min. Circuit Amps (A) MFA: Max. Fuse Amps (A)
TOCA: Total Over Current Amp (A)
kW: Fan Motor Rated Output (kW) FLA: Full Load Amps (A)

2. Specification for field supplied fuses and wiring

Model	Power supply wiring			Transmission wiring	
	Field fuses	Wiring	Size	Wiring	Size
FXVQ125NY1	16A	H05VV (Note 1)	Wiring size and length must comply with local codes.	Balanced type shield wire (Note 2)	0.75 – 1.25 mm²
FXVQ200NY1					
FXVQ250NY1					
FXVQ400NY1					
FXVQ500NY1					

The lengths of remote controller wiring and transmission wiring are as follows:
Transmission wiring ..... Total wiring length 2000 m

- Outdoor unit - Indoor unit .... Max. 1000 m
- Outdoor unit - BS unit ..... Max. 1000 m
- BS unit - Indoor unit ..... Max. 1000 m
- Indoor unit - Indoor unit ..... Max. 1000 m

Note
1. Shows only in case of protected piping. Use H07RN-F in case of no protection.
2. Use the shield wire. Or it may cause a malfunction or breakdown of the unit by receiving electrical noise (external noise)

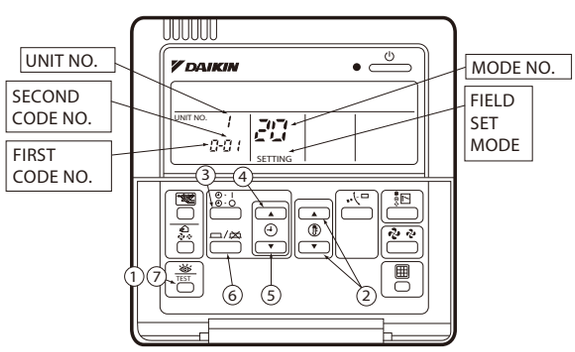
9. FIELD SETTING AND CONTROL WIRING

9-1 FIELD SETTING

- Field setting of the following items is required depending on the installation conditions.
- If optional accessories are mounted on the indoor unit, the indoor unit setting may have to be changed. Refer to the installation manual for each optional accessory.

<Procedure of field setting>

(1) When in the normal mode, press the " " button (⑦) for 4 seconds or more, and the FIELD SETTING MODE is entered.
(2) Select the desired MODE NO. with the " " button (②).
(3) During group control, when setting by each indoor unit (mode No. 20, 22 and 23 have been selected), press the " " button (③) and select the INDOOR UNIT NO to be set. (This operation is unnecessary when setting by group.)
(4) Press the " " upper button (④) and select FIRST CODE NO.
(5) Press the " " lower button (⑤) and select the SECOND CODE NO.
(6) Press the " " button (⑥) once and the present settings are SET.
(7) Press the " " button (⑦) to return to the NORMAL MODE.



Note
1. Setting is carried out in the group mode, however, set the mode number inside the ( ) for individual setting of the each indoor unit or confirmation after setting.
2. The SECOND CODE NO. is set to in ▭ number when shipped from the factory.
3. Do not make any settings not given in the table on the below.
4. Not displayed if the indoor unit is not equipped with that function.
5. When returning to the normal mode, "88" may be displayed in the LCD in order for the remote.

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<Filter sign setting>
- Settings must be made when changing display interval of filter sign according to environment and filter type.

Mode NO. (Note.1)	FIRST CODE NO.	Description of setting		SECOND CODE NO. (Note.2)			
				01		02	
10 (20)	0	Filter Contamination-Heavy/ Light (Setting for spacing time of display time to clean air filter) (Setting for when filter contamination is heavy, and spacing time of display time to clean air filter is to be halved)	Long life type	Light	Approx. 2500 Hrs.	Heavy	Approx. 1250 Hrs.
	2	Remote thermo-controller (Setup is made when using a remote thermo-controller.)		Use		Nonuse	
	3	Spacing time of display time to clean air filter count (Setting for when the filter sign is not to be used)		Display		Do not display	

<Automatic reset of power failure>
- For automatic reset of power fault, settings must be made as shown.

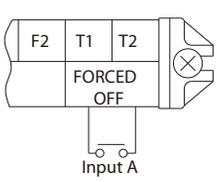
Mode NO.	FIRST CODE NO.	SECOND CODE NO.	
		01	02
12(22)	5	None	Provided

9-2 REMOTE CONTROLLER AND CENTRALIZED CONTROL

<When operating forced OFF or ON/OFF control from the terminal block (X3M)>

1. Method of wiring and specifications
   - Remote control can be carried out by connecting input from outside to terminals T1 and T2 of the terminal block.

Class of wire	Vinyl cord with sheath or 2-wire cable
Wire gauge	0.75-1.25 mm ^{2}
Wire length	MAX 100 m
Outside contact specifications	Contact that guarantees minimum applicable load DC15V · 1 mA



2. Operation procedures
   - Operation is as given in the table below for input A of forced OFF, and ON/OFF control.

For forced OFF	For ON/OFF control
Forced OFF (control panel rejection) by input A "ON"	Operate by switching input A from "OFF" to "ON"
Control panel acceptance by input A "OFF"	Stop by switching input A from "ON" to "OFF"

3. For selecting Forced OFF and ON/OFF control
   - Select input by control panel after turning on the power supply.
   - Set to the field set mode by control panel. (For field setting, refer to the procedure shown on previous page.)
   - After entering the field set mode, select mode No.12, set the first code No.1, and set the second code No. to "01" for forced OFF, or to "02" for ON/OFF control. (Factory setting is set to forced OFF)

<When operating forced OFF, ON/OFF control, operation display, and malfunction display from the wiring adaptor for electrical appendices (A2P).>
Refer to "For remote control" in the "VRV Engineering Data".

<Operation by centralized control>
- When using with the centralized control, remove the jumper of the group remote control printed circuit board mounted in the control box.
- If controlled by the centralized control equipment (the central control panel (optional accessory)), the group NO. must be set by the control panel. For details, refer to the instruction of each centralized control equipment.

10. TRIAL OPERATION

(1) Confirm that the control box lid of the indoor units and the outdoor unit are closed.
(2) Perform the test run according to the installation manual attached to the outdoor unit.
   - If the operation lamp on the control panel is flashing, it indicates malfunction. Check the error code of the liquid crystal display and the malfunction source. For the error code and the details, refer to the operation manual attached to the indoor unit. In particular, if an error in the table 1 is displayed, it may be the error of wiring work or the power supply may not be turned ON.

(3) Carry out test run according to installation manual attached to the outdoor unit.

(Table 1)

Control panel (remote controller) display	Content	Solution
"Under centralized control" flashing	• Terminal for forced OFF (T1·T2) may be short circuiting.	• Fix not to short circuit.
"U4" flashing "UH" flashing	• The power supply of the outdoor unit may not turned ON. • The power supply of the outdoor unit may not be installed yet. • Misconnection between the transmission wiring, and the control panel wiring or the forced OFF wiring. • Disconnection of the transmission wiring.	• Turn on the power of outdoor unit. • Proceed installation work for power supply. • Fix the wiring.
NOT display	• The power supply of the indoor unit is not turned ON. • The power supply of the indoor unit may not be installed yet. • Misconnection between the transmission wiring, and the control panel wiring or the forced OFF wiring. • Disconnection of the control panel wiring.	• Turn on the power of indoor unit. • Proceed installation work for power supply. • Fix the wiring.
"E4" flashing	• A test run is carried out from outdoor unit in a wrong mode (other than "standard" mode).	• Select the "standard" mode, then test run again from outdoor unit.
"A6" flashing	• Airflow rate is higher than expected (overcurrent).	• Adjust the external static pressure.

⚠ WARNING

Even though the test run is finished, if the interior finish work is not completed, instruct the user not to operate until the work is completed for protecting the indoor unit.
Paint or adhesive used for interior finish work may stain the indoor unit, which may result in water splash or leak.

Warning

- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the User's Manual carefully before using this product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

Đại lý phân phối

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