DAIKIN

EDUS391776-F9

R-410A

Engineering Data

FXZQ-TAVJU
VISTA™ 2 × 2 Cassette Unit

FXZQ-TAVJU
VISTA™ 2 × 2 Cassette Unit

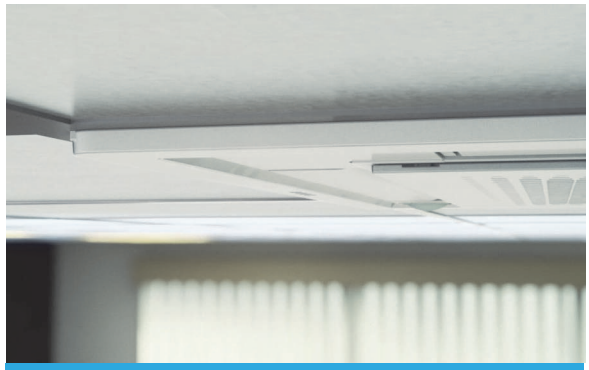
1. Features and Benefits

The VISTA™ 2 × 2 Cassette Unit for *VRV* systems seamlessly integrates into 2 × 2 ceiling grids with a remarkable blend of iconic design and engineering excellence.

- Redesigned decoration panel eliminates overlap of adjacent tiles and simplifies coordination
- Low profile panel design measures a mere 5/16” (8 mm) deep
- Incorporation of DC fan motor reduces operational power input up to 48%*
- Independently motorized louvers allow for greater air distribution flexibility
- 4-way, 3-way, and 2-way blow configurability
- Auto** fan speed control optimizes fan energy input by intelligently controlling fan speed
- Configurable auxiliary heat control allows for a high degree of control of heater on/off temperatures
- Direct integration of outside air
- The decoration panel is available in white (BYFQ60C3W1W), or silver/white (BYFQ60C3W1S)
- Backed by 10 year parts limited warranty***

*When compared vs previous generation FXZQ_MVJU9
**Requires BRC1E73 or iTouch Manager
***Complete warranty details available from your local dealer or at www.daikincomfort.com

The decoration panel design allows VISTA™ to be easily placed near lighting or other devices.



The VISTA™ decoration panel depth measures a mere 5/16” (8 mm), discreetly blending with the ceiling face.

An optional space and presence sensor kit (BRYQ60A2W / BRYQ60A2S) can be installed to further enhance operational efficiency and occupant comfort.

- Senses occupancy and sets the unit to a more efficient set point after the space has been unoccupied for 30 minutes (adjustable) or more
- Can be configured to automatically turn the unit off after 2 hours (adjustable) when no occupancy is detected
- Detects location of occupants near the unit and automatically adjusts louver airflow direction to reduce uncomfortable drafts
- Presence sensor sensitivity is adjustable
- Floor temperature sensors will automatically adjust louver airflow direction to maintain an even and comfortable temperature distribution from floor to ceiling†

†The presence sensor will always take precedence over floor sensor

2. Specifications

VISTA™ 2 × 2 Cassette Unit

Model			FXZQ05TAVJU	FXZQ07TAVJU
Power supply			1 phase, 60 Hz, 208/230 V	1 phase, 60 Hz, 208/230 V
★1 ★3 Cooling capacity		Btu/h (kW)	5,800 (1.7)	7,500 (2.2)
★2 ★3 Heating capacity		Btu/h (kW)	6,500 (1.9)	8,500 (2.5)
Casing / Color			Galvanized steel plate	Galvanized steel plate
Dimensions: (H × W × D)		in. (mm)	10-1/4 × 22-5/8 × 22-5/8 (260 × 575 × 575)	10-1/4 × 22-5/8 × 22-5/8 (260 × 575 × 575)
Coil (Cross fin coil)	Rows × Stages × FPI		2 × 12 × 22	2 × 12 × 22
	Face area	ft^2 (m^2)	2.35 (0.218)	2.35 (0.218)
Fan	Model		QTS32D15M	QTS32D15M
	Type		Turbo fan	Turbo fan
	Motor Output (High)	W	50	50
	Airflow Rate (H/M/L)	cfm (m^3/min)	300/247/229 (8.5/7.0/6.5)	307/264/229 (8.5/7.5/6.5)
	Drive		Direct drive	Direct drive
Temperature control			Microprocessor thermostat for cooling and heating	Microprocessor thermostat for cooling and heating
Sound absorbing thermal insulation material			Foamed polyurethane	Foamed polyurethane
★4 Sound pressure level (H/M/L)		dB(A)	32/29.5/25.5	32/29.5/25.5
★4 Sound Power Level		dB(A)	49	49
Weight		Lbs (kg)	35.3 (16)	35.3 (16)
Piping connections	Liquid pipes	in. (mm)	ϕ1/4 (ϕ6.4) (Flare connection)	ϕ1/4 (ϕ6.4) (Flare connection)
	Gas pipes	in. (mm)	ϕ1/2 (ϕ12.7) (Flare connection)	ϕ1/2 (ϕ12.7) (Flare connection)
	Drain pipe	in. (mm)	VP20 (External Dia. 1-1/32 (26), Internal Dia. 25/32 (20))	VP20 (External Dia. 1-1/32 (26), Internal Dia. 25/32 (20))
Safety devices			PC board fuse	PC board fuse
Refrigerant control			Electronic expansion valve	Electronic expansion valve
Connectable outdoor unit			R410A *VRV* series	R410A *VRV* series
Standard accessories			Operation manual, Installation manual, Drain hose, Metal clamp for drain hose, Conduit mounting plate, Washer for hanger bracket, Screw, Insulation for fitting, Sealing pad, Clamp	Operation manual, Installation manual, Drain hose, Metal clamp for drain hose, Conduit mounting plate, Washer for hanger bracket, Screw, Insulation for fitting, Sealing pad, Clamp
Decoration panels (Option)	Model		BYFQ60C3W1W/BYFQ60C3W1S	BYFQ60C3W1W/BYFQ60C3W1S
	Color		White/Silver	White/Silver
	Dimensions: (H × W × D)	in. (mm)	1-13/16 × 24-7/16 × 24-7/16 (46 × 620 × 620)	1-13/16 × 24-7/16 × 24-7/16 (46 × 620 × 620)
	Air filter		Resin net (with mold resistance)	Resin net (with mold resistance)
	Weight	Lbs (kg)	6.2 (2.8)	6.2 (2.8)
Drawing No.	Specification		C: 3D110238	C: 3D110238
	Sound (Indoor)		C: 3D110239	C: 3D110239

Notes:

★1. Nominal cooling capacities are based on the following conditions:
Return air temperature: 80.0°FDB (26.7°CDB), 67.0°FWB (19.4°CWB)
Outdoor temperature: 95.0°FDB (35.0°CDB)
Equivalent ref. piping length: 25 ft (7.6 m) (Horizontal)

★2. Nominal heating capacities are based on the following conditions:
Return air temperature: 70.0°FDB (21.1°CDB).
Outdoor temperature: 47.0°FDB (8.3°CDB), 43.0°FWB (6.1°CWB)
Equivalent ref. piping length: 25 ft (7.6 m) (Horizontal)

★3. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

★4. Anechoic chamber conversion value, measured under JIS conditions. During actual operation, these values may be higher as a result of installation conditions.

5. Refer to **Electric Characteristics** for the power input.

VISTA™ 2 × 2 Cassette Unit

Model			FXZQ09TAVJU	FXZQ12TAVJU
Power supply			1 phase, 60 Hz, 208/230 V	1 phase, 60 Hz, 208/230 V
★1 ★3 Cooling capacity		Btu/h (kW)	9,500 (2.8)	12,000 (3.5)
★2 ★3 Heating capacity		Btu/h (kW)	10,500 (3.1)	13,500 (4.0)
Casing / Color			Galvanized steel plate	Galvanized steel plate
Dimensions: (H × W × D)		in. (mm)	10-1/4 × 22-5/8 × 22-5/8 (260 × 575 × 575)	10-1/4 × 22-5/8 × 22-5/8 (260 × 575 × 575)
Coil (Cross fin coil)	Rows × Stages × FPI		2 × 12 × 22	2 × 16 × 22
	Face area	ft^2 (m^2)	2.35 (0.218)	3.12 (0.290)
Fan	Model		QTS32D15M	QTS32D15M
	Type		Turbo fan	Turbo fan
	Motor Output (High)	W	50	50
	Airflow Rate (H/M/L)	cfm (m^3/min)	317/282/229 (9.0/8.0/6.5)	353/300/247 (10.0/8.5/7.0)
	Drive		Direct drive	Direct drive
Temperature control			Microprocessor thermostat for cooling and heating	Microprocessor thermostat for cooling and heating
Sound absorbing thermal insulation material			Foamed polyurethane	Foamed polyurethane
★4 Sound pressure level (H/M/L)		dB(A)	33/30/25.5	33.5/30/26
★4 Sound Power Level		dB(A)	50	51
Weight		Lbs (kg)	35.3 (16.0)	36.4 (16.5)
Piping connections	Liquid pipes	in. (mm)	ϕ1/4 (ϕ6.4) (Flare connection)	ϕ1/4 (ϕ6.4) (Flare connection)
	Gas pipes	in. (mm)	ϕ1/2 (ϕ12.7) (Flare connection)	ϕ1/2 (ϕ12.7) (Flare connection)
	Drain pipe	in. (mm)	VP20 (External Dia. 1-1/32 (26), Internal Dia. 25/32 (20))	VP20 (External Dia. 1-1/32 (26), Internal Dia. 25/32 (20))
Safety devices			PC board fuse	PC board fuse
Refrigerant control			Electronic expansion valve	Electronic expansion valve
Connectable outdoor unit			R410A *VRV* series	R410A *VRV* series
Standard accessories			Operation manual, Installation manual, Drain hose, Metal clamp for drain hose, Conduit mounting plate, Washer for hanger bracket, Screw, Insulation for fitting, Sealing pad, Clamp	Operation manual, Installation manual, Drain hose, Metal clamp for drain hose, Conduit mounting plate, Washer for hanger bracket, Screw, Insulation for fitting, Sealing pad, Clamp
Decoration panels (Option)	Model		BYFQ60C3W1W/BYFQ60C3W1S	BYFQ60C3W1W/BYFQ60C3W1S
	Color		White/Silver	White/Silver
	Dimensions: (H × W × D)	in. (mm)	1-13/16 × 24-7/16 × 24-7/16 (46 × 620 × 620)	1-13/16 × 24-7/16 × 24-7/16 (46 × 620 × 620)
	Air filter		Resin net (with mold resistance)	Resin net (with mold resistance)
	Weight	Lbs (kg)	6.2 (2.8)	6.2 (2.8)
Drawing No.	Specification		C: 3D110238	C: 3D110238
	Sound (Indoor)		C: 3D110241	C: 3D110242

Notes:

★1. Nominal cooling capacities are based on the following conditions:
Return air temperature: 80.0°FDB (26.7°CDB), 67.0°FWB (19.4°CWB)
Outdoor temperature: 95.0°FDB (35.0°CDB)
Equivalent ref. piping length: 25 ft (7.6 m) (Horizontal)

★2. Nominal heating capacities are based on the following conditions:
Return air temperature: 70.0°FDB (21.1°CDB).
Outdoor temperature: 47.0°FDB (8.3°CDB), 43.0°FWB (6.1°CWB)
Equivalent ref. piping length: 25 ft (7.6 m) (Horizontal)

★3. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

★4. Anechoic chamber conversion value, measured under JIS conditions. During actual operation, these values may be higher as a result of installation conditions.

5. Refer to **Electric Characteristics** for the power input.

VISTA™ 2 × 2 Cassette Unit

Model			FXZQ15TAVJU	FXZQ18TAVJU
Power supply			1 phase, 60 Hz, 208/230 V	1 phase, 60 Hz, 208/230 V
★1 ★3 Cooling capacity		Btu/h (kW)	15,000 (4.5)	18,000 (5.3)
★2 ★3 Heating capacity		Btu/h (kW)	17,000 (5.0)	20,000 (5.9)
Casing / Color			Galvanized steel plate	Galvanized steel plate
Dimensions: (H × W × D)		in. (mm)	10-1/4 × 22-5/8 × 22-5/8 (260 × 575 × 575)	10-1/4 × 22-5/8 × 22-5/8 (260 × 575 × 575)
Coil (Cross fin coil)	Rows × Stages × FPI		2 × 16 × 22	3 × 16 × 22
	Face area	ft^2 (m^2)	3.12 (0.290)	3.23 (0.30)
Fan	Model		QTS32D15M	QTS32D15M
	Type		Turbo fan	Turbo fan
	Motor Output (High)	W	50	50
	Airflow Rate (H/M/L)	cfm (m^3/min)	405/335/282 (11.5/9.5/8.0)	511/441/353 (14.5/12.5/10.0)
	Drive		Direct drive	Direct drive
Temperature control			Microprocessor thermostat for cooling and heating	Microprocessor thermostat for cooling and heating
Sound absorbing thermal insulation material			Foamed polyurethane	Foamed polyurethane
★4 Sound pressure level (H/M/L)		dB(A)	37/32/28	43/40/33
★4 Sound Power Level		dB(A)	54	60
Weight		Lbs (kg)	36.4 (16.5)	41.9 (19.0)
Piping connections	Liquid pipes	in. (mm)	ϕ1/4 (ϕ6.4) (Flare connection)	ϕ1/4 (ϕ6.4) (Flare connection)
	Gas pipes	in. (mm)	ϕ1/2 (ϕ12.7) (Flare connection)	ϕ1/2 (ϕ12.7) (Flare connection)
	Drain pipe	in. (mm)	VP20 (External Dia. 1-1/32 (26), Internal Dia. 25/32 (20))	VP20 (External Dia. 1-1/32 (26), Internal Dia. 25/32 (20))
Safety devices			PC board fuse	PC board fuse
Refrigerant control			Electronic expansion valve	Electronic expansion valve
Connectable outdoor unit			R410A *VRV* series	R410A *VRV* series
Standard accessories			Operation manual, Installation manual, Drain hose, Metal clamp for drain hose, Conduit mounting plate, Washer for hanger bracket, Screw, Insulation for fitting, Sealing pad, Clamp	Operation manual, Installation manual, Drain hose, Metal clamp for drain hose, Conduit mounting plate, Washer for hanger bracket, Screw, Insulation for fitting, Sealing pad, Clamp
Decoration panels (Option)	Model		BYFQ60C3W1W/BYFQ60C3W1S	BYFQ60C3W1W/BYFQ60C3W1S
	Color		White/Silver	White/Silver
	Dimensions: (H × W × D)	in. (mm)	1-13/16 × 24-7/16 × 24-7/16 (46 × 620 × 620)	1-13/16 × 24-7/16 × 24-7/16 (46 × 620 × 620)
	Air filter		Resin net (with mold resistance)	Resin net (with mold resistance)
	Weight	Lbs (kg)	6.2 (2.8)	6.2 (2.8)
Drawing No.	Specification		C: 3D110238	C: 3D110238
	Sound (Indoor)		C: 3D110247	C: 3D110248

Notes:

★1. Nominal cooling capacities are based on the following conditions:
Return air temperature: 80.0°FDB (26.7°CDB), 67.0°FWB (19.4°CWB)
Outdoor temperature: 95.0°FDB (35.0°CDB)
Equivalent ref. piping length: 25 ft (7.6 m) (Horizontal)

★2. Nominal heating capacities are based on the following conditions:
Return air temperature: 70.0°FDB (21.1°CDB).
Outdoor temperature: 47.0°FDB (8.3°CDB), 43.0°FWB (6.1°CWB)
Equivalent ref. piping length: 25 ft (7.6 m) (Horizontal)

★3. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

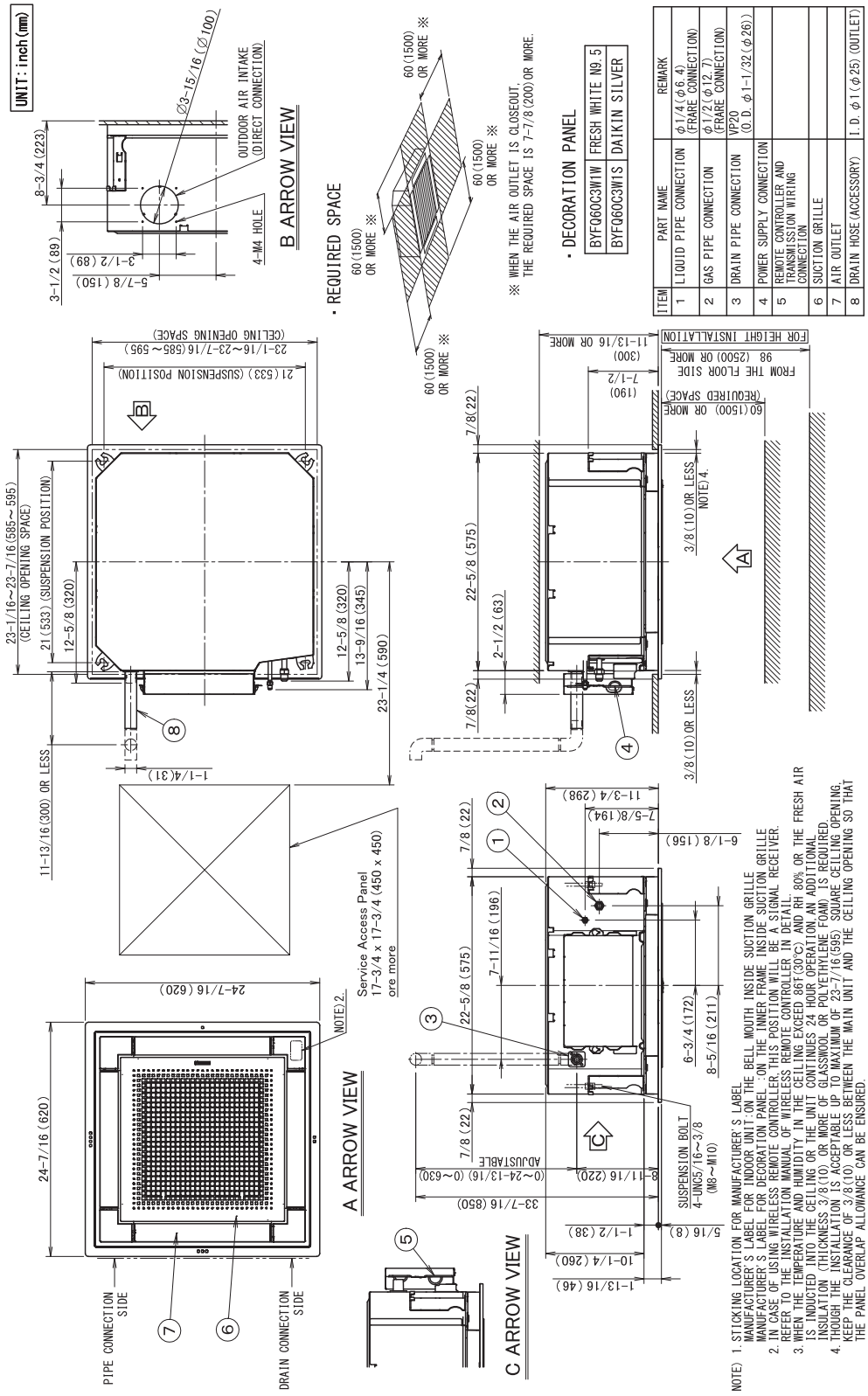
★4. Anechoic chamber conversion value, measured under JIS conditions. During actual operation, these values may be higher as a result of installation conditions.

5. Refer to **Electric Characteristics** for the power input.

3. Dimensions

3.1 FXZQ-TA (with VISTA decoration panel BYFQ60C3W1W / BYFQ60C3W1S)

FXZQ05TAVJU / FXZQ07TAVJU / FXZQ09TAVJU / FXZQ12TAVJU / FXZQ15TAVJU / FXZQ18TAVJU



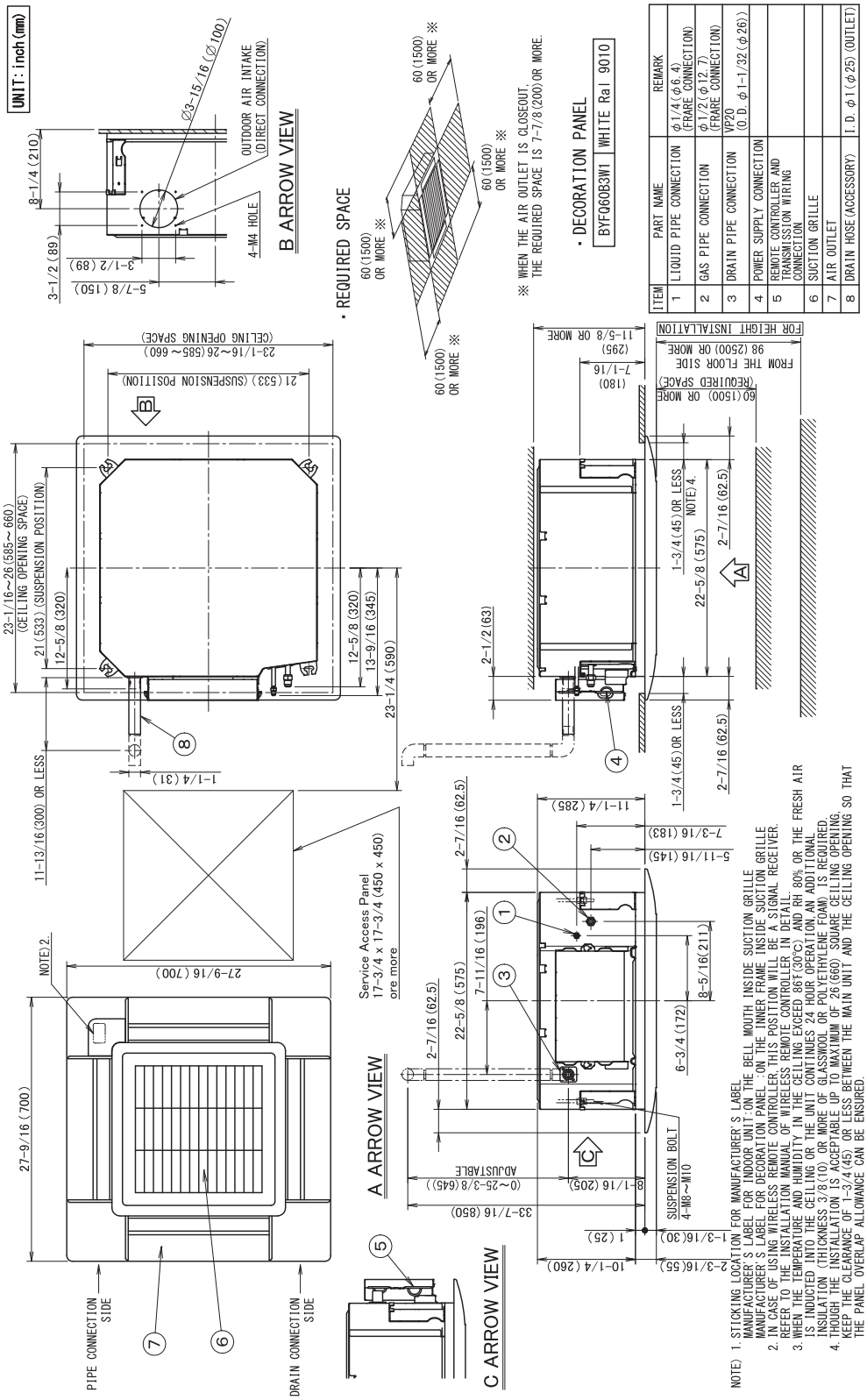
ITEM	PART NAME	REMARK
1	LIQUID PIPE CONNECTION	φ1/4 (φ6.4) (FRARE CONNECTION)
2	GAS PIPE CONNECTION	φ1/2 (φ12.7) (FRARE CONNECTION)
3	DRAIN PIPE CONNECTION	VP20 (O.D. φ1-1/32 (φ26))
4	POWER SUPPLY CONNECTION	
5	REMOTE CONTROLLER AND TRANSMISSION WIRING CONNECTION	
6	SUCTION GRILLE	
7	AIR OUTLET	
8	DRAIN HOSE (ACCESSORY)	I.D. φ1 (φ25) (OUTLET)

BYFQ60C3W1W	FRESH WHITE N9.5
BYFQ60C3W1S	DAIKIN SILVER

NOTE) 1. STICKING LOCATION FOR MANUFACTURER'S LABEL
MANUFACTURER'S LABEL FOR INDOOR UNIT:ON THE BELL MOUTH INSIDE SUCTION GRILLE
MANUFACTURER'S LABEL FOR DECORATION PANEL :ON THE INNER FRAME INSIDE SUCTION GRILLE
2. IN CASE OF USING WIRELESS REMOTE CONTROLLER, THIS POSITION WILL BE A SIGNAL RECEIVER. REFER TO THE INSTALLATION MANUAL OF WIRELESS REMOTE CONTROLLER IN DETAIL.
3. WHEN THE TEMPERATURE AND HUMIDITY IN THE CEILING EXCEED 86F(30°C) AND RH 80% OR THE FRESH AIR IS INDUCTED INTO THE CEILING OR THE UNIT CONTINUES 24 HOUR OPERATION, AN ADDITIONAL INSULATION (THICKNESS 3/8(10) OR MORE OF GLASSWOOL OR POLYETHYLENE FOAM) IS REQUIRED.
4. THOUGH THE INSTALLATION IS ACCEPTABLE UP TO MAXIMUM OF 23-7/16(595) SQUARE CEILING OPENING, KEEP THE CLEARANCE OF 3/8(10) OR LESS BETWEEN THE MAIN UNIT AND THE CEILING OPENING SO THAT THE PANEL OVERLAP ALLOWANCE CAN BE ENSURED.

3.2 FXZQ-TA (with legacy decoration panel BYFQ60B3W1)

FXZQ05TAVJU / FXZQ07TAVJU / FXZQ09TAVJU / FXZQ12TAVJU / FXZQ15TAVJU / FXZQ18TAVJU



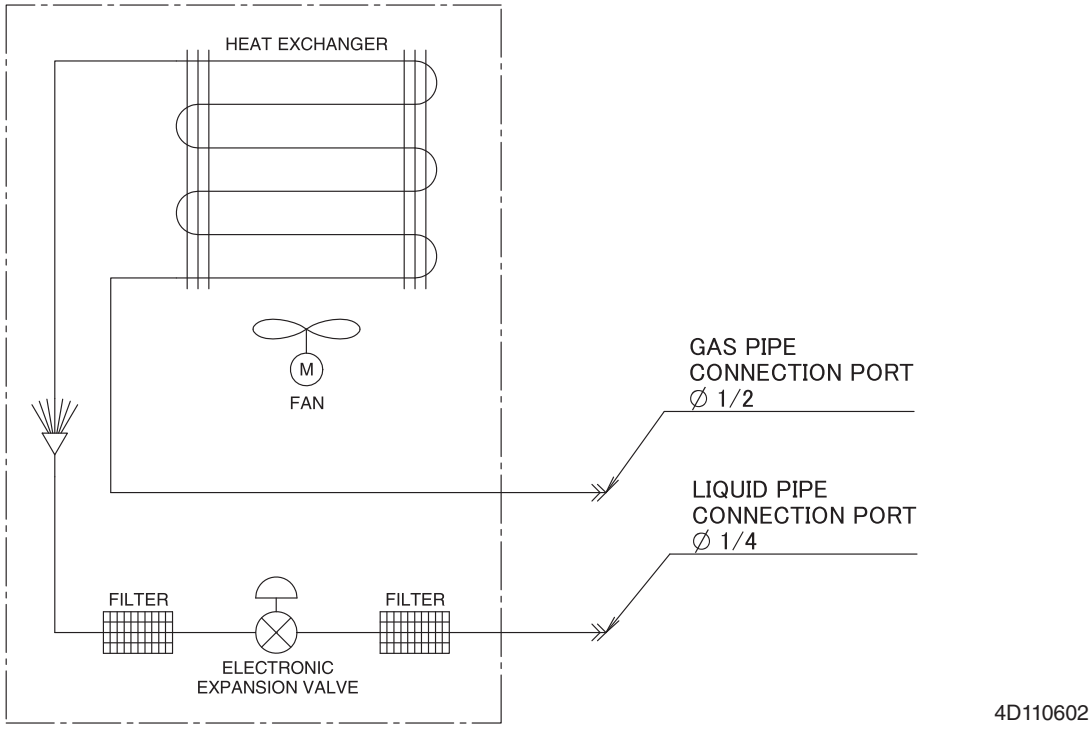
ITEM	PART NAME	REMARK
1	LIQUID PIPE CONNECTION	φ1/4 (φ6.4) (FRARE CONNECTION)
2	GAS PIPE CONNECTION	φ1/2 (φ12.7) (FRARE CONNECTION)
3	DRAIN PIPE CONNECTION	VP20 (O.D. φ1-1/32 (φ26))
4	POWER SUPPLY CONNECTION	
5	REMOTE CONTROLLER AND TRANSMISSION WIRING CONNECTION	
6	SUCTION GRILLE	
7	AIR OUTLET	
8	DRAIN HOSE (ACCESSORY)	I.D. φ1 (φ25) (OUTLET)

NOTE) 1. STICKING LOCATION FOR MANUFACTURER'S LABEL
MANUFACTURER'S LABEL FOR INDOOR UNIT: ON THE BELL MOUTH INSIDE SUCTION GRILLE
MANUFACTURER'S LABEL FOR DECORATION PANEL: ON THE INNER FRAME INSIDE SUCTION GRILLE
2. IN CASE OF USING WIRELESS REMOTE CONTROLLER, THIS POSITION WILL BE A SIGNAL RECEIVER.
REFER TO THE INSTALLATION MANUAL OF WIRELESS REMOTE CONTROLLER IN DETAIL.
3. WHEN THE TEMPERATURE AND HUMIDITY IN THE CEILING EXCEED 86°F(30°C) AND RH 80%, OR THE FRESH AIR IS INDUCTED INTO THE CEILING OR THE UNIT CONTINUES 24 HOUR OPERATION, AN ADDITIONAL INSULATION (THICKNESS 3/8(10) OR MORE OF GLASSWOOL OR POLYETHYLENE FOAM) IS REQUIRED.
4. THOUGH THE INSTALLATION IS ACCEPTABLE UP TO MAXIMUM OF 26(660) SQUARE CEILING OPENING, KEEP THE CLEARANCE OF 1-3/4 (45) OR LESS BETWEEN THE MAIN UNIT AND THE CEILING OPENING SO THAT THE PANEL OVERLAP ALLOWANCE CAN BE ENSURED.

3D110660

4. Piping Diagrams

FXZQ05TAVJU / FXZQ07TAVJU / FXZQ09TAVJU / FXZQ12TAVJU / FXZQ15TAVJU / FXZQ18TAVJU

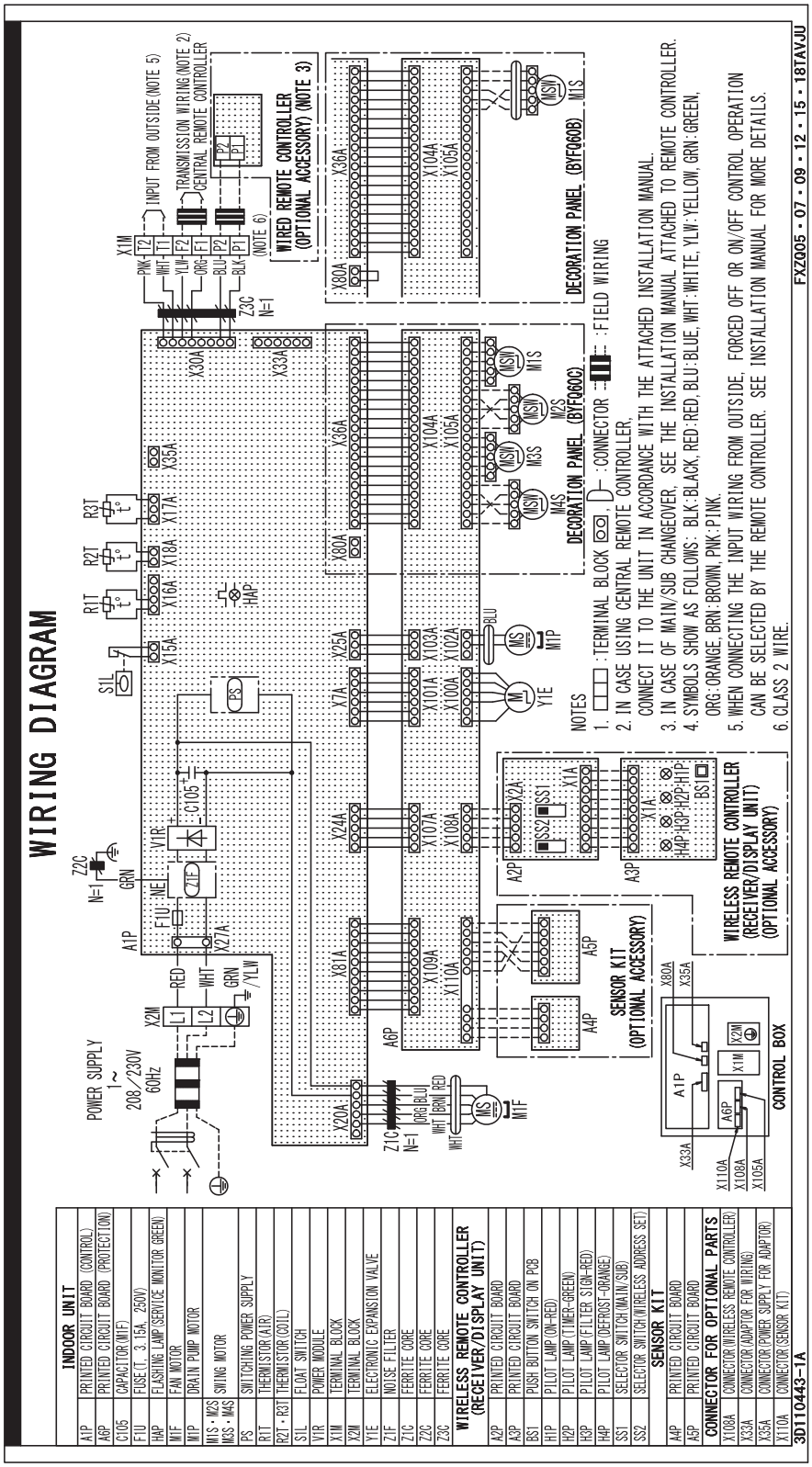


Unit: in. (mm)

Model	Gas	Liquid
FXZQ05TAVJU / FXZQ07TAVJU / FXZQ09TAVJU / FXZQ12TAVJU / FXZQ15TAVJU / FXZQ18TAVJU	ϕ1/2 (ϕ12.7)	ϕ1/4 (ϕ6.4)

5. Wiring Diagrams

FXZQ05TAVJU / FXZQ07TAVJU / FXZQ09TAVJU / FXZQ12TAVJU / FXZQ15TAVJU / FXZQ18TAVJU



3D110443A

6. Electric Characteristics

FXZQ05TAVJU / FXZQ07TAVJU / FXZQ09TAVJU / FXZQ12TAVJU / FXZQ15TAVJU / FXZQ18TAVJU

Unit				Power supply		IFM		Power input[W]	
Model	Hz	Voltage	Voltage range	MCA	MOP	KW	FLA	Cooling	Heating
FXZQ05TAVJU	60	208/230	MAX.253 MIN.187	0.3	15	0.05	0.2	43	36
FXZQ07TAVJU				0.3	15	0.05	0.2	43	36
FXZQ09TAVJU				0.3	15	0.05	0.2	43	36
FXZQ12TAVJU				0.4	15	0.05	0.3	45	38
FXZQ15TAVJU				0.4	15	0.05	0.3	59	53
FXZQ18TAVJU				0.6	15	0.05	0.5	92	86

SYMBOLS:
MCA:MINIMUM CIRCUIT AMPACITY(A)
MOP:MAXIMUM OVERCURRENT PROTECTIVE DEVICE(A)
KW:FAN MOTOR RATED OUTPUT(kW)
FLA:FULL LOAD AMPERE(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/MOP
MCA=1.25×FLA
MOP≦4×FLA
(NEXT LOWER STANDARD FUSE RATING IS MINIMUM 15A.)
4. SELECT WIRE SIZE BASED ON THE MCA.
5. COOLING POWER INPUT VALUE INCLUDES POWER REQUIRED TO OPERATE THE BUILT-IN DRAIN PUMP.

C: 3D110236

7. Safety Devices Setting

Model		FXZQ05TAVJU	FXZQ07TAVJU	FXZQ09TAVJU	FXZQ12TAVJU	FXZQ15TAVJU	FXZQ18TAVJU
Printed circuit board fuse		250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A
Fan motor thermal fuse	°F (°C)	–	–	–	–	–	–
Fan motor thermal protector	°F (°C)	–	–	–	–	–	–
Drain pump fuse	°F (°C)	–	–	–	–	–	–

C: 4D110603

8. Capacity Tables

8.1 Cooling Capacity at Te: 43°F (6°C)

Model	Indoor air temp. °FWB (°CWB) (Te: 43°F (6°C))											
	61 (16.1)		64 (17.8)		67 (19.4)		70 (21.1)		72 (22.2)		75 (23.9)	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH
FXZQ05TAVJU	4.7	4.3	5.2	4.7	5.8	4.7	6.0	4.5	6.0	4.3	6.3	4.0
FXZQ07TAVJU	6.1	5.0	6.9	5.7	7.5	5.5	7.9	5.3	8.0	5.3	8.0	5.0
FXZQ09TAVJU	7.6	6.0	8.4	6.6	9.5	6.6	9.9	6.4	9.9	6.2	10.2	5.9
FXZQ12TAVJU	9.5	6.9	10.9	7.8	12.0	7.8	12.5	7.6	12.7	7.4	13.0	7.2
FXZQ15TAVJU	11.9	9.5	13.5	10.4	15.0	10.8	15.7	10.4	16.1	10.1	16.3	9.8
FXZQ18TAVJU	14.3	11.4	16.0	12.5	18.0	13.0	18.7	12.8	18.9	12.5	19.4	12.3

TC: Total capacity: MBH
SHC: Sensible heat capacity: MBH

Notes: 1. These capacity tables can be used 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.

CA17A794

8.2 Heating Capacity

Model	Indoor air temp. °FDB (°CDB) (Tc: 115°F (46°C))					
	62 (16.7)	65 (18.3)	68 (20.0)	70 (21.1)	72 (22.2)	75 (23.9)
	TC	TC	TC	TC	TC	TC
	MBH	MBH	MBH	MBH	MBH	MBH
FXZQ05TAVJU	7.2	7.2	6.9	6.5	6.5	6.2
FXZQ07TAVJU	9.3	9.2	8.9	8.5	8.1	7.8
FXZQ09TAVJU	11.6	11.4	10.9	10.5	10.1	9.6
FXZQ12TAVJU	14.6	14.5	13.9	13.5	12.8	12.2
FXZQ15TAVJU	18.5	18.3	17.7	17.0	16.6	15.7
FXZQ18TAVJU	21.7	21.6	20.7	20.0	19.3	18.2

TC: Total capacity: MBH

Notes: 1. These capacity tables can be used 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.

CA17A794

8.3 Correction Factor for Cooling Capacity at Te: 48°F (9°C)

Refer to the correction factor table below when a mini-split indoor unit is connected to a *VRV* Heat Pump system using a Branch Port box.

Model	Indoor air temp. °FWB (°CWB) (Te: 48°F (9°C))													
	57 (13.9)		61 (16.1)		64 (17.8)		67 (19.4)		70 (21.1)		72 (22.2)		75 (23.9)	
	TC	SHF	TC	SHF	TC	SHF	TC	SHF	TC	SHF	TC	SHF	TC	SHF
FXZQ05TAVJU	0.65	1.21	0.72	1.15	0.76	1.12	0.82	1.06	0.84	1.05	0.85	1.04	0.87	1.03
FXZQ07TAVJU	0.65	1.20	0.72	1.15	0.76	1.12	0.82	1.06	0.84	1.05	0.85	1.04	0.87	1.03
FXZQ09TAVJU	0.64	1.21	0.72	1.15	0.76	1.12	0.82	1.06	0.84	1.05	0.85	1.04	0.87	1.03
FXZQ12TAVJU	0.64	1.21	0.72	1.15	0.76	1.12	0.82	1.06	0.84	1.05	0.85	1.04	0.87	1.03
FXZQ15TAVJU	0.65	1.21	0.72	1.15	0.76	1.12	0.82	1.06	0.84	1.05	0.85	1.04	0.87	1.03
FXZQ18TAVJU	0.64	1.22	0.72	1.14	0.76	1.12	0.82	1.06	0.84	1.04	0.85	1.04	0.87	1.03

TC: Total capacity
SHF: Sensible heat factor

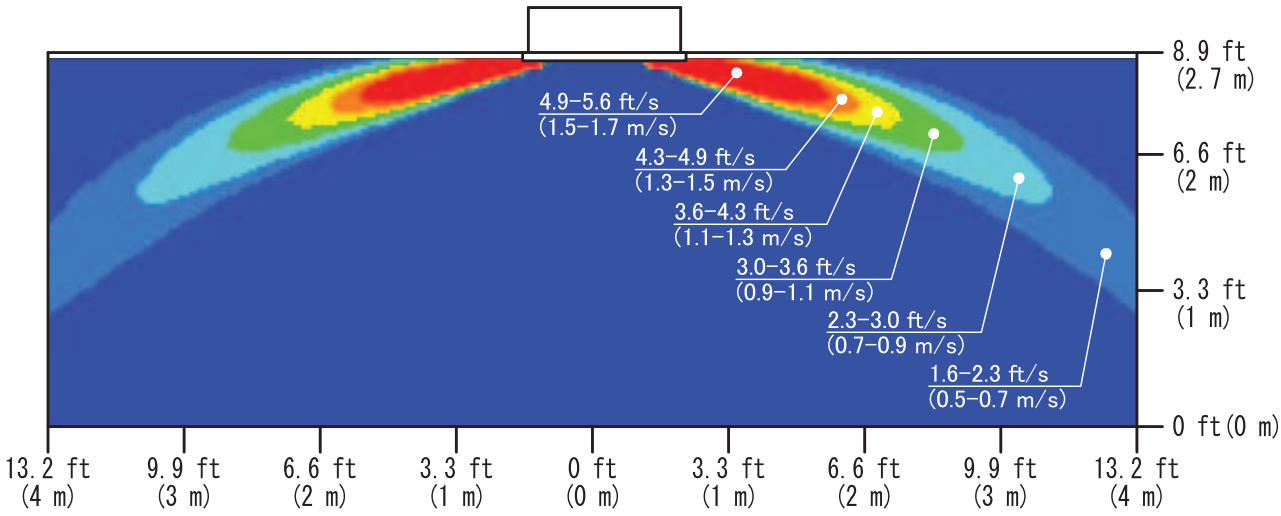
CA17A794

9. Air Velocity and Temperature Distributions (Reference Data)

FXZQ05TAVJU <Cooling mode>

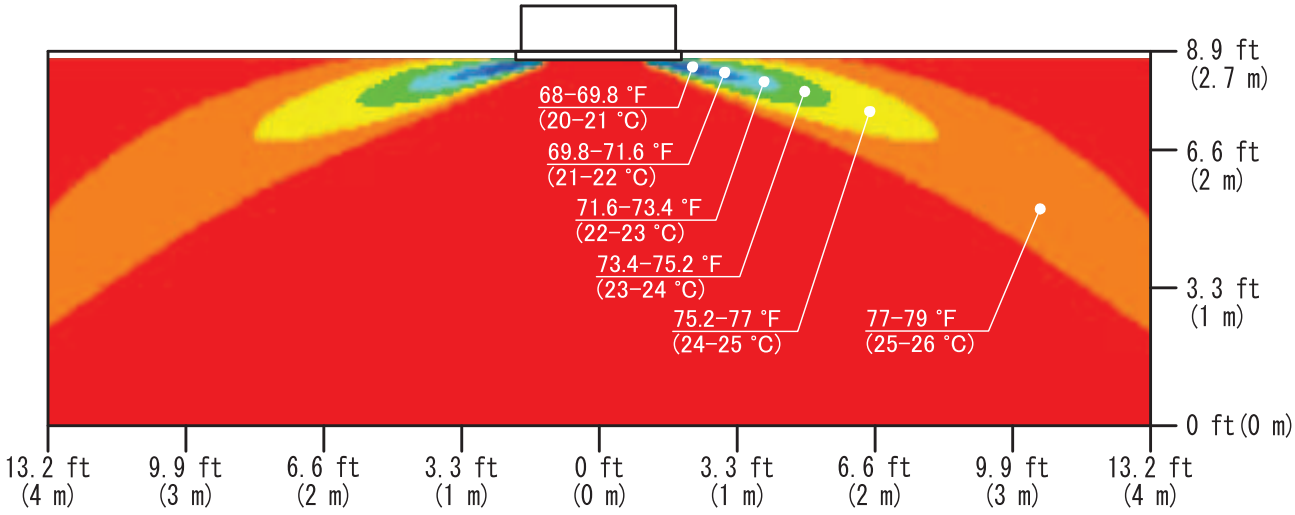
COOLING AIR VELOCITY DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : HORIZONTAL



COOLING AIR TEMPERATURE DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : HORIZONTAL

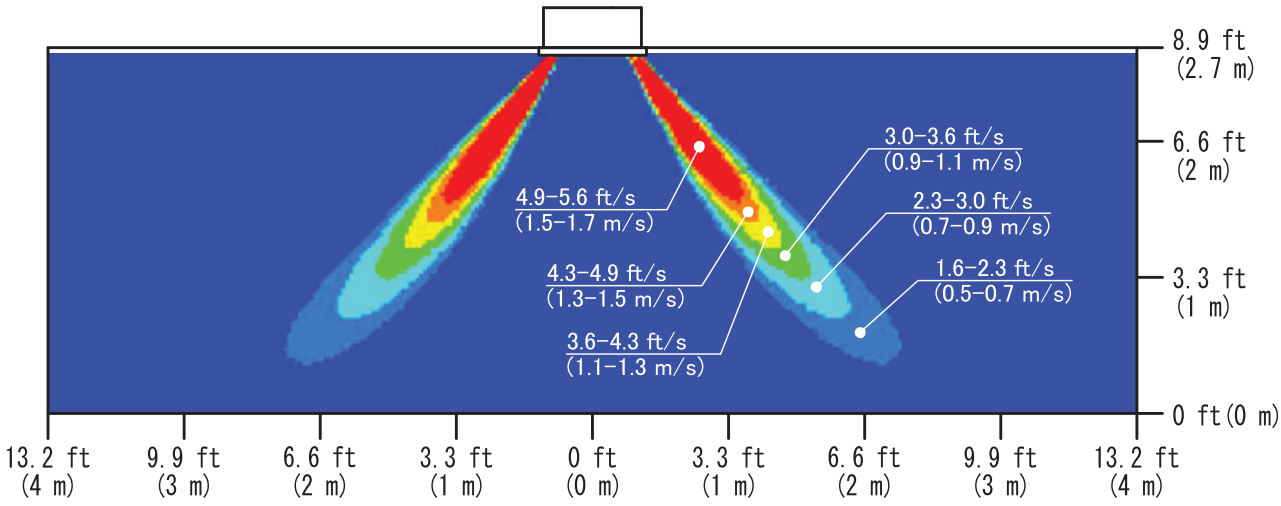


4D110252

FXZQ05TAVJU <Heating mode>

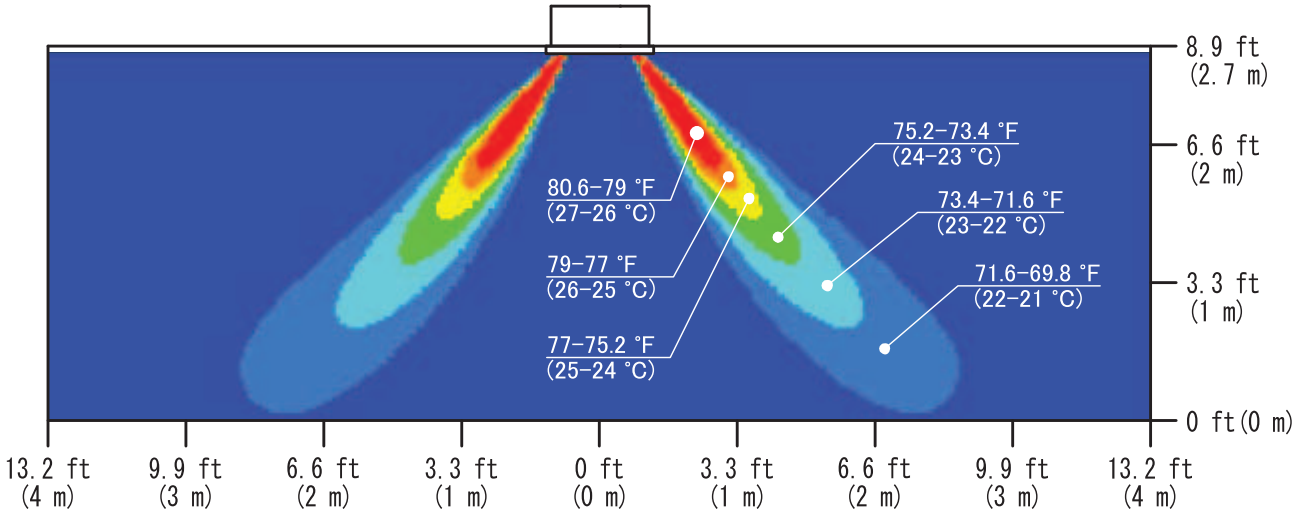
HEATING AIR VELOCITY DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : DOWNWARD



HEATING AIR TEMPERATURE DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : DOWNWARD

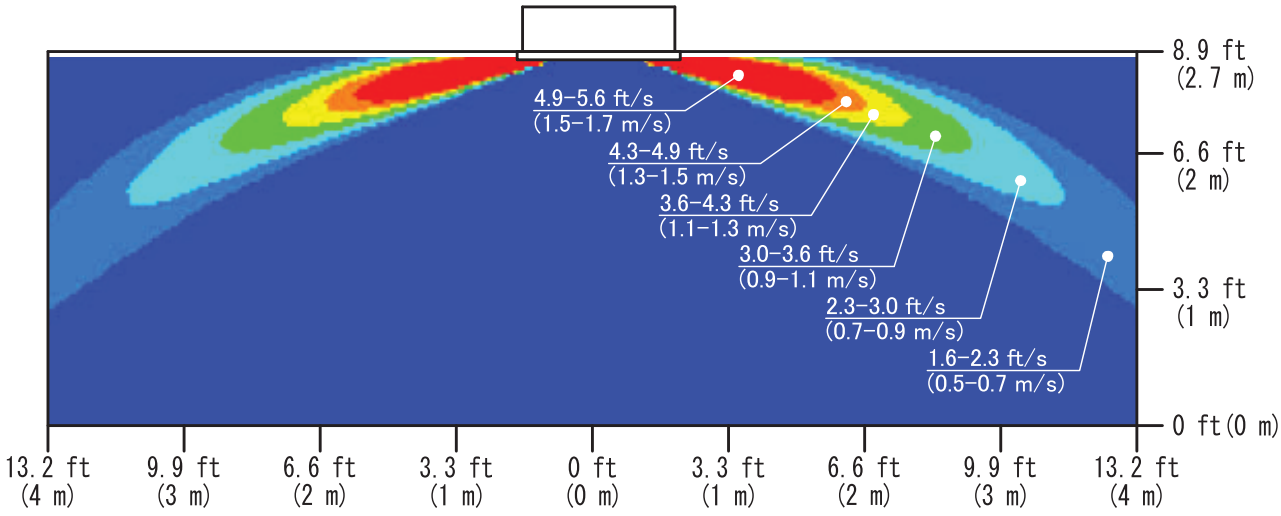


4D110261

FXZQ07TAVJU <Cooling mode>

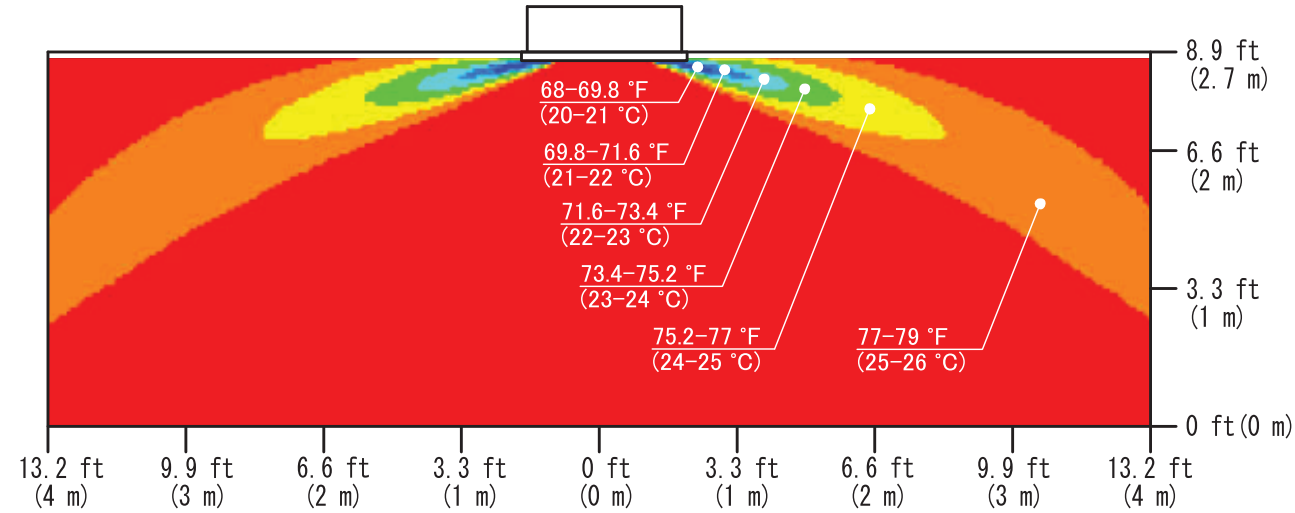
COOLING AIR VELOCITY DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : HORIZONTAL



COOLING AIR TEMPERATURE DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : HORIZONTAL

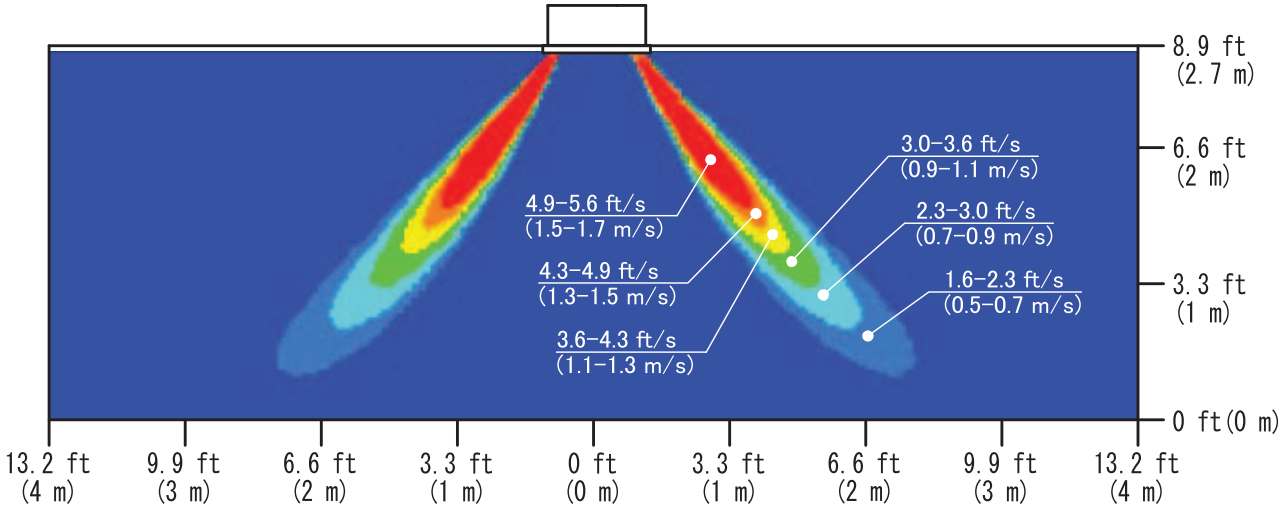


4D110253

FXZQ07TAVJU <Heating mode>

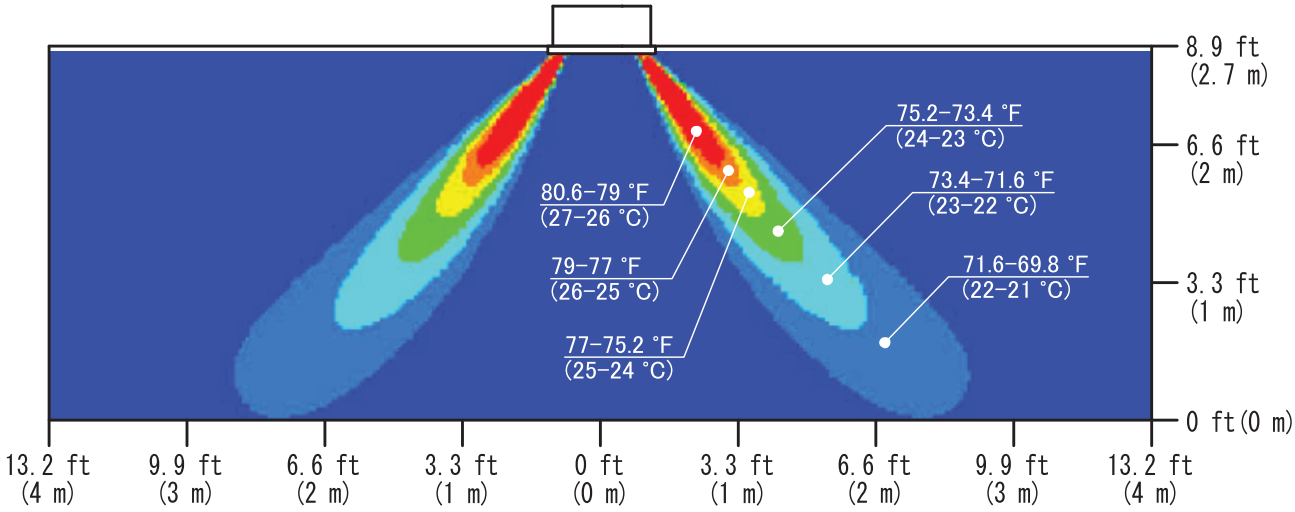
HEATING AIR VELOCITY DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : DOWNWARD



HEATING AIR TEMPERATURE DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : DOWNWARD

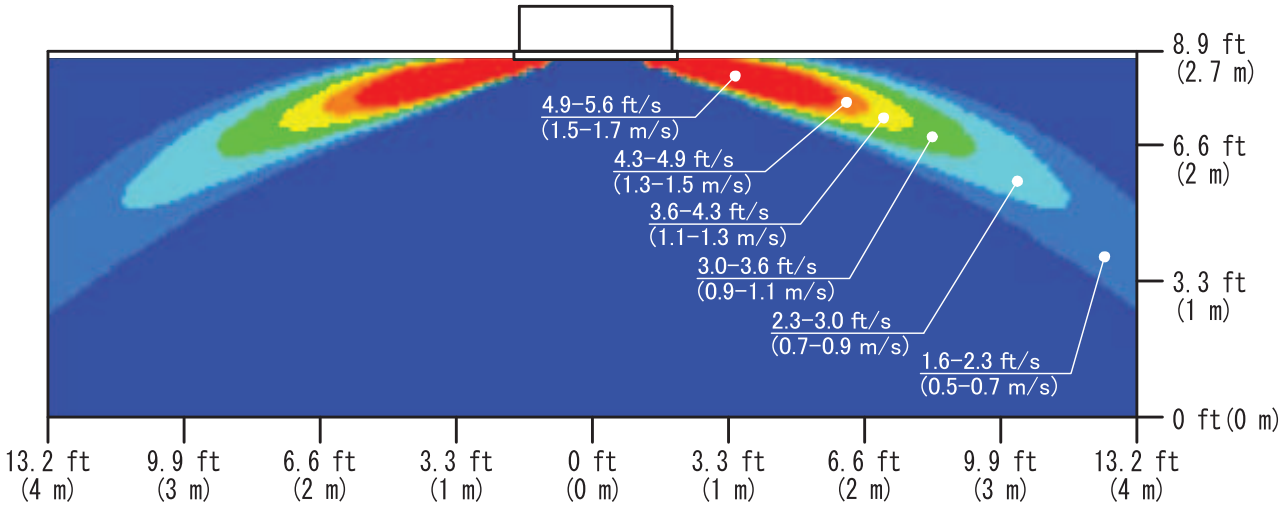


4D110262

FXZQ09TAVJU <Cooling mode>

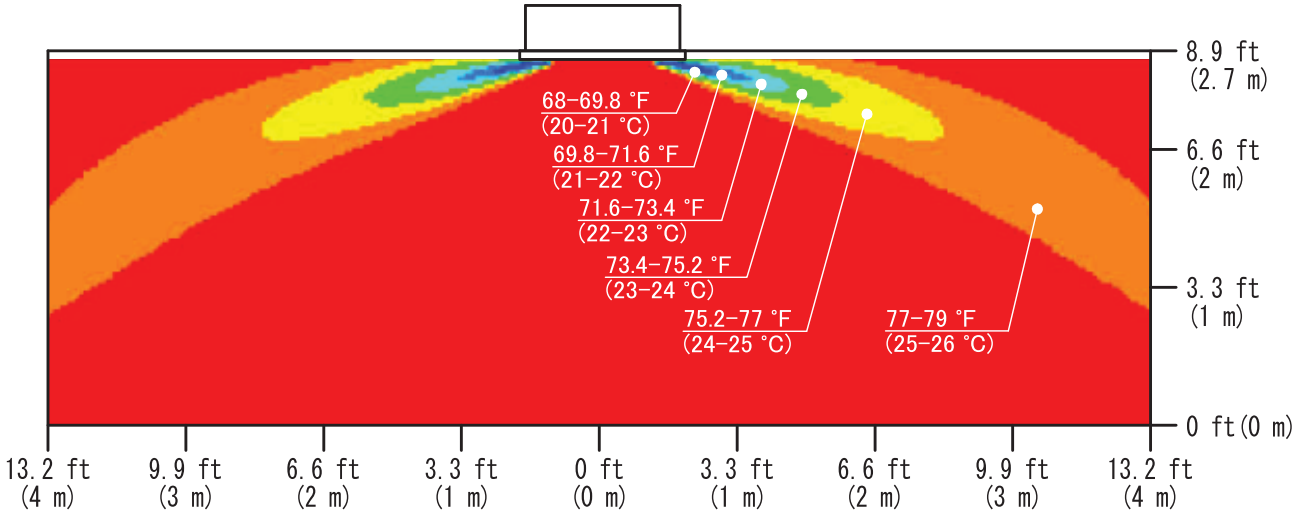
COOLING AIR VELOCITY DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : HORIZONTAL



COOLING AIR TEMPERATURE DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : HORIZONTAL

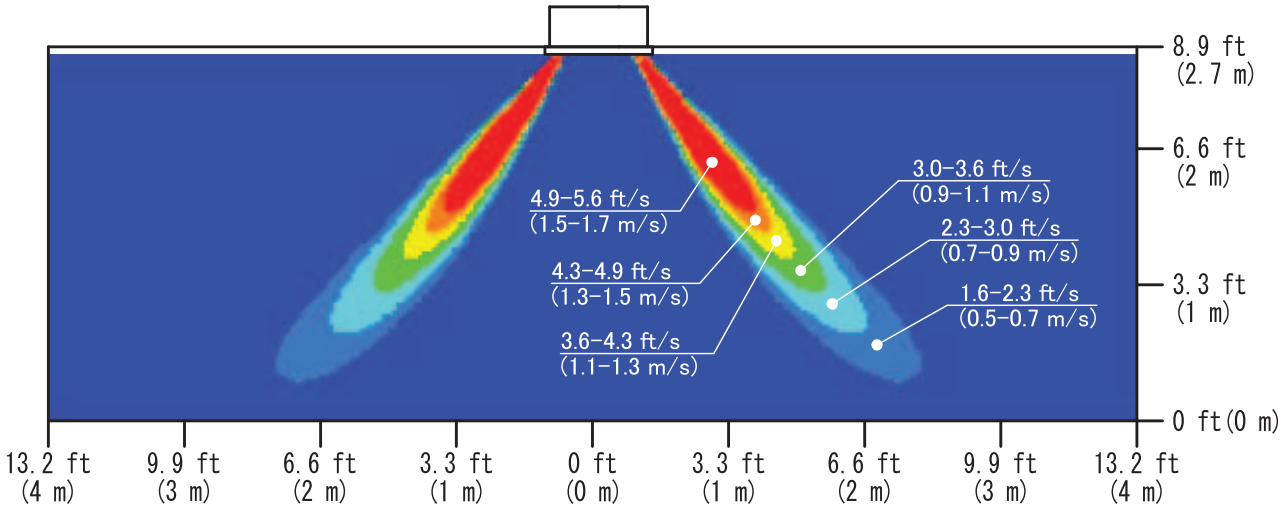


4D110254

FXZQ09TAVJU <Heating mode>

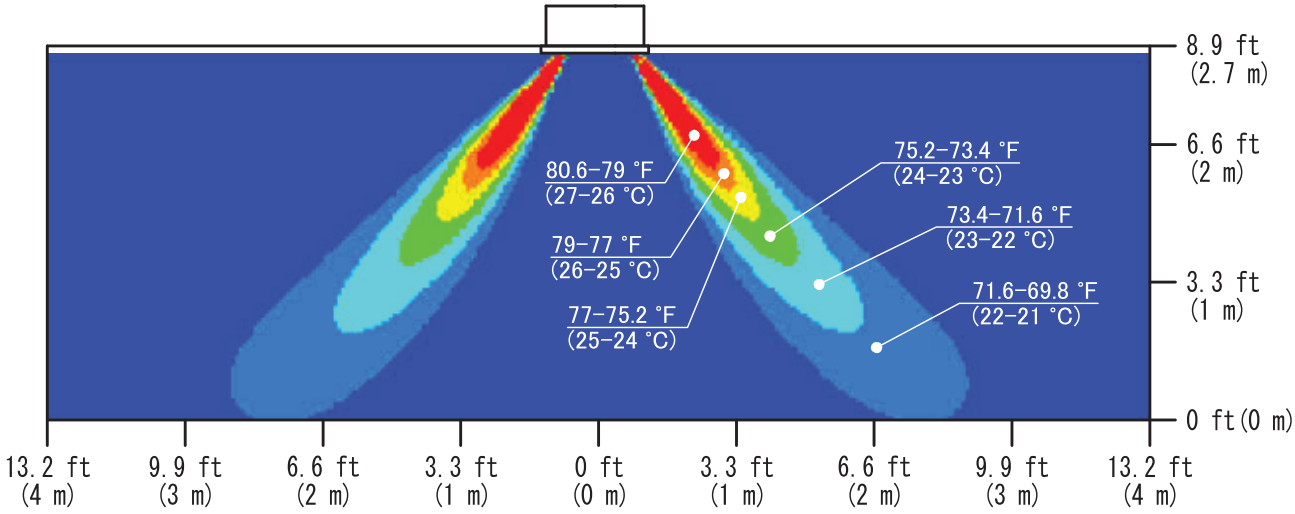
HEATING AIR VELOCITY DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : DOWNWARD



HEATING AIR TEMPERATURE DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : DOWNWARD

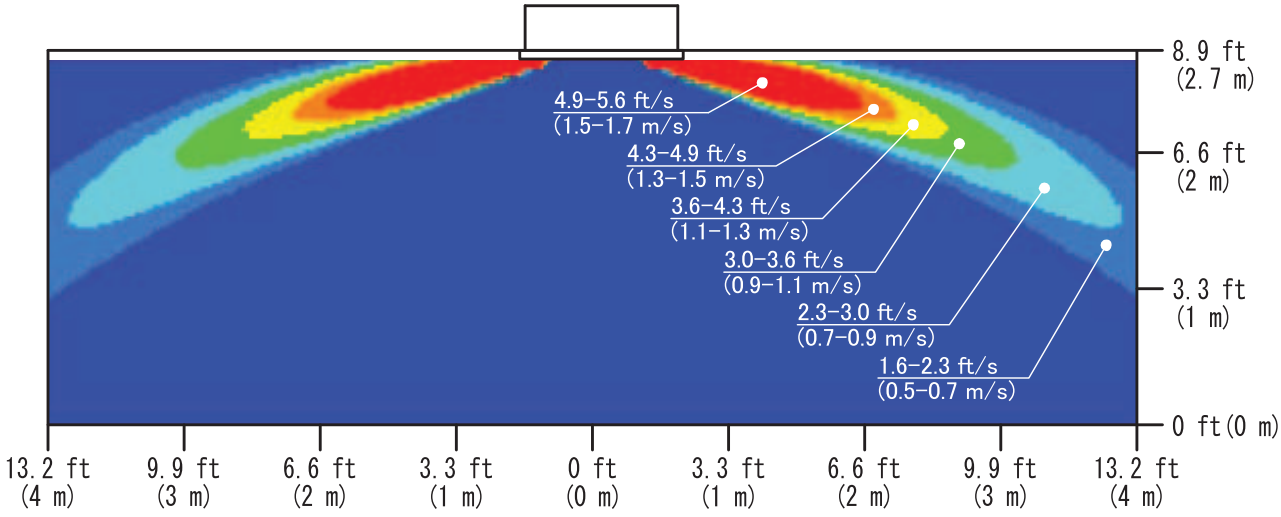


4D110263

FXZQ12TAVJU <Cooling mode>

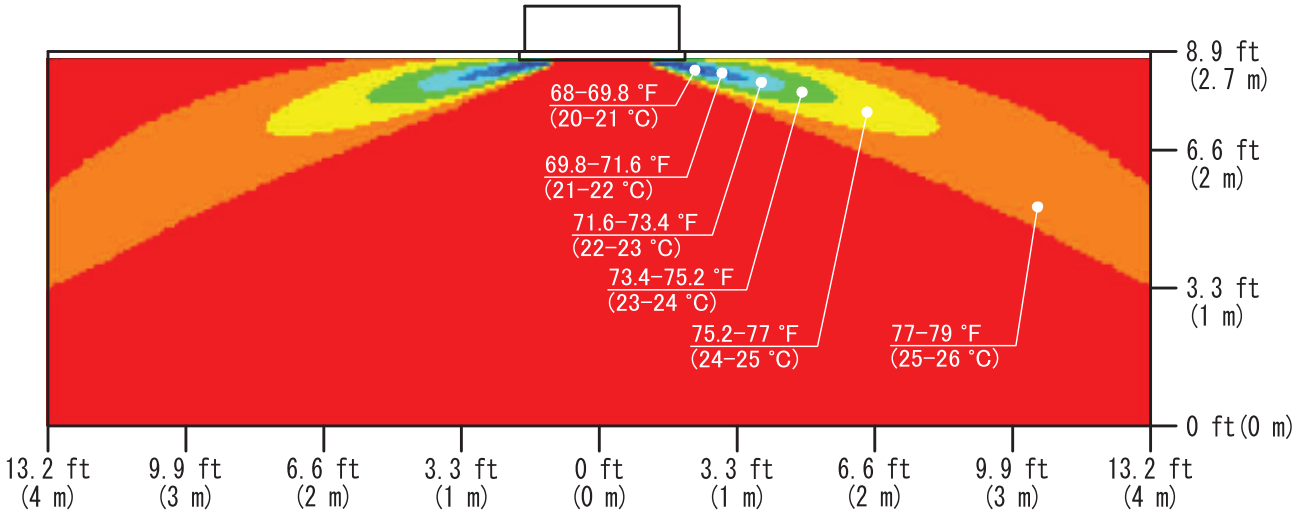
COOLING AIR VELOCITY DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : HORIZONTAL



COOLING AIR TEMPERATURE DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : HORIZONTAL

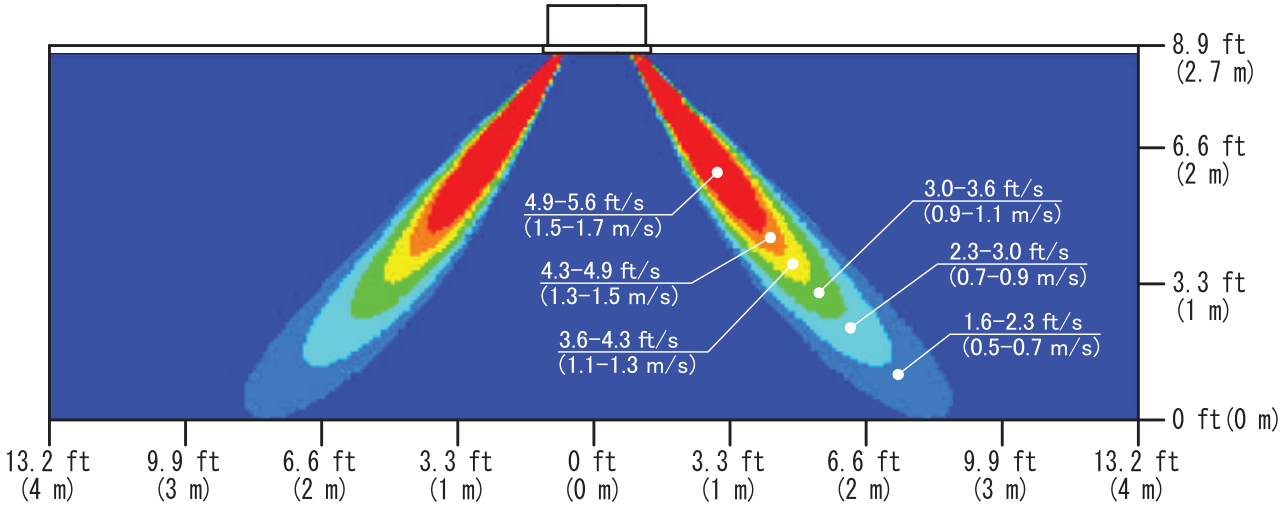


4D110255

FXZQ12TAVJU <Heating mode>

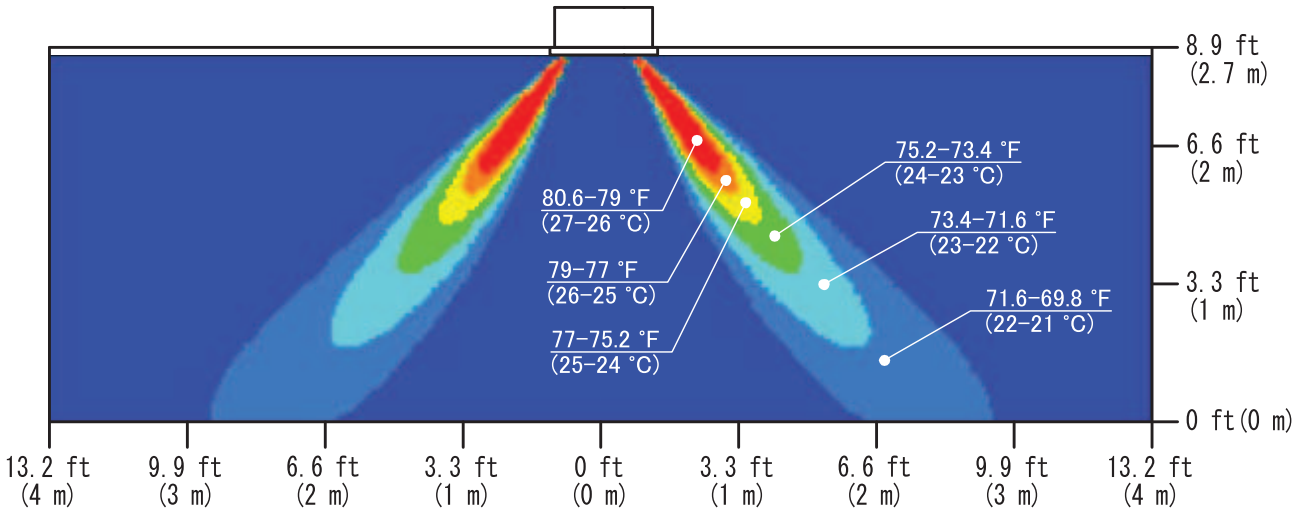
HEATING AIR VELOCITY DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : DOWNWARD



HEATING AIR TEMPERATURE DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : DOWNWARD

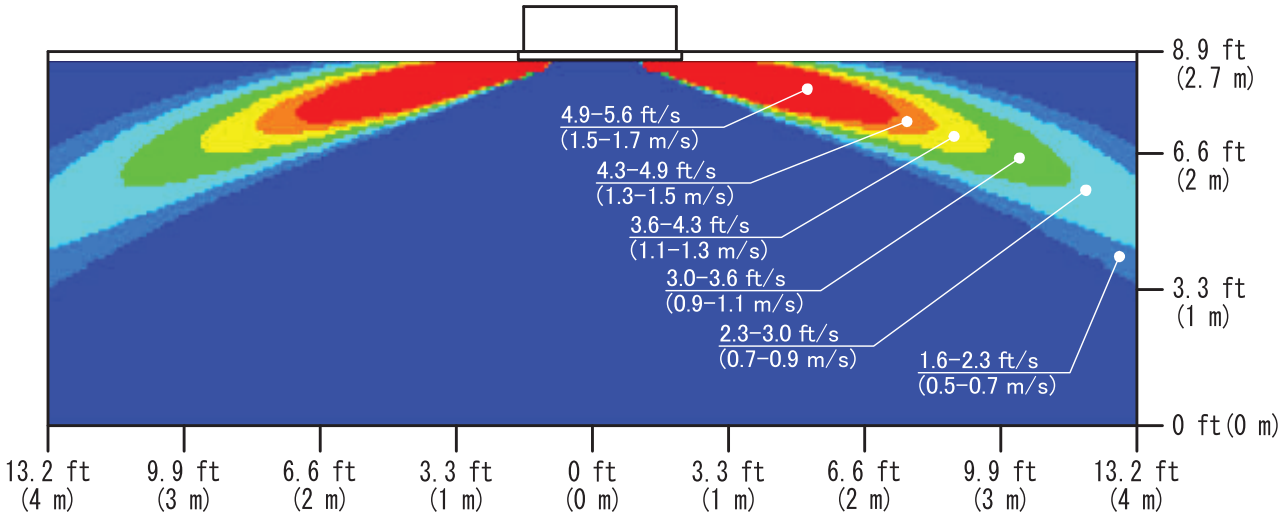


4D110264

FXZQ15TAVJU <Cooling mode>

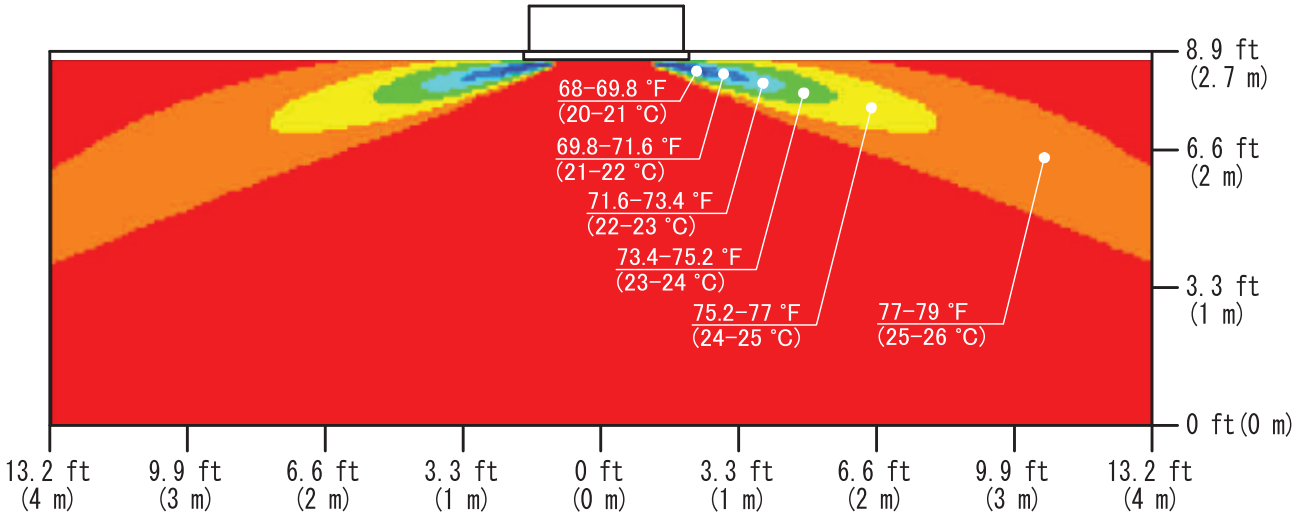
COOLING AIR VELOCITY DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : HORIZONTAL



COOLING AIR TEMPERATURE DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : HORIZONTAL

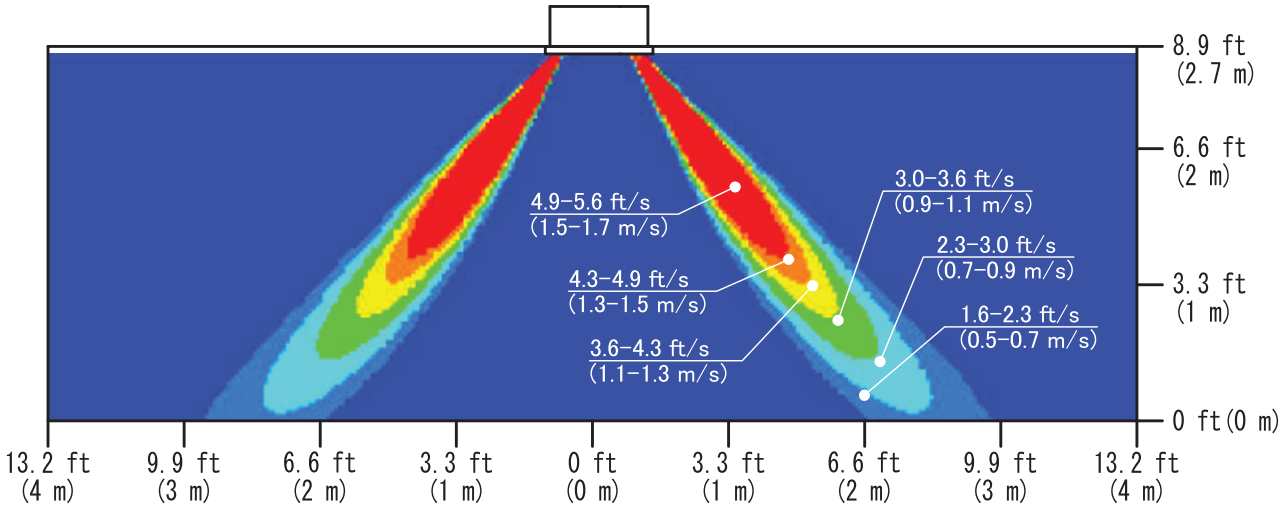


4D110256

FXZQ15TAVJU <Heating mode>

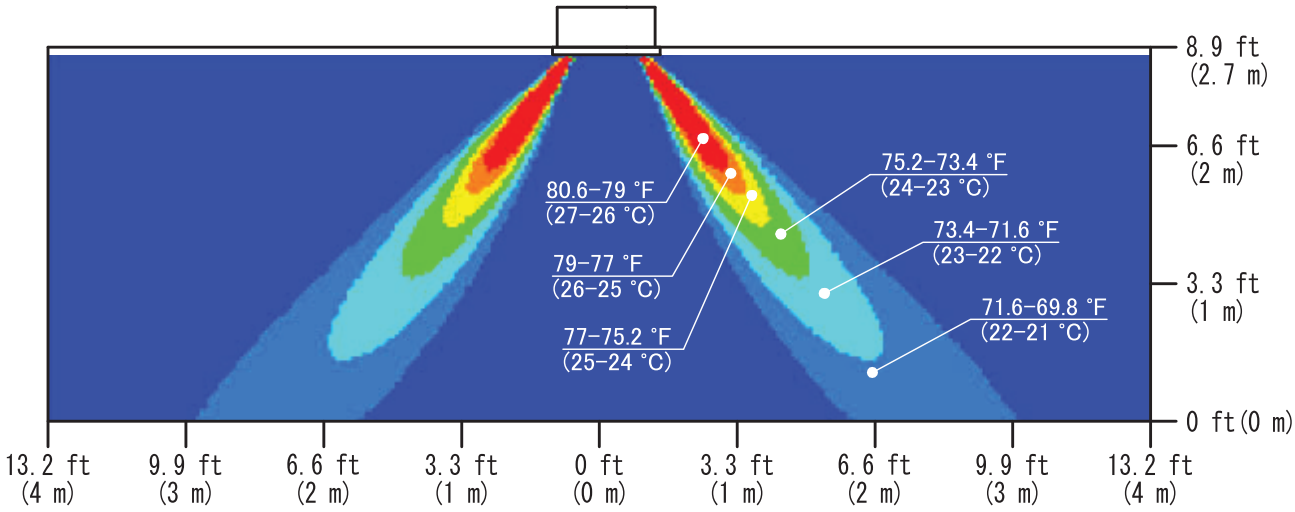
HEATING AIR VELOCITY DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : DOWNWARD



HEATING AIR TEMPERATURE DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : DOWNWARD

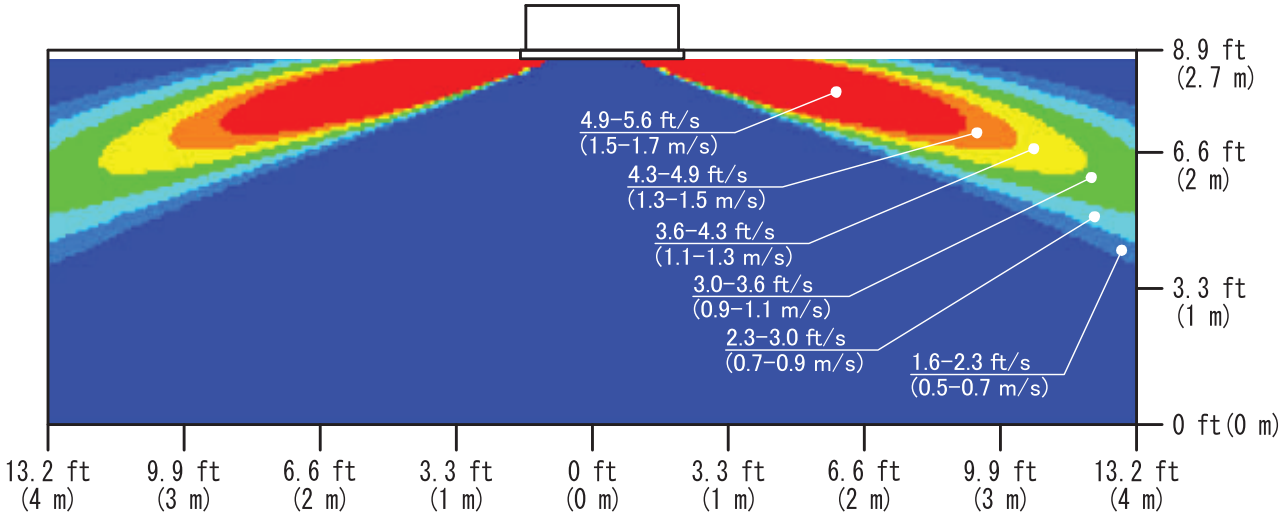


4D110265

FXZQ18TAVJU <Cooling mode>

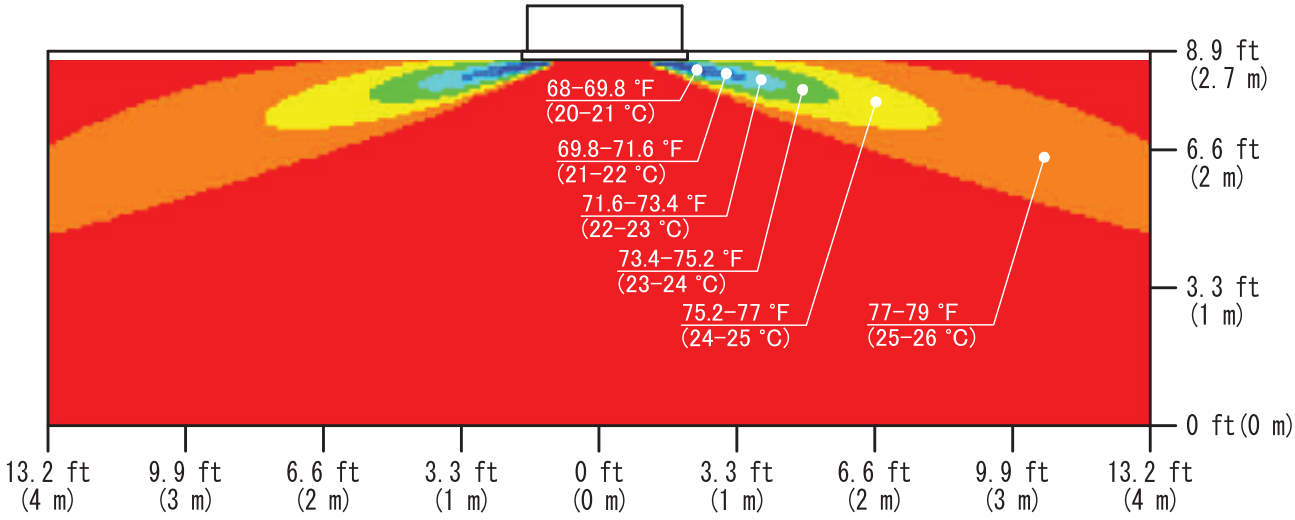
COOLING AIR VELOCITY DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : HORIZONTAL



COOLING AIR TEMPERATURE DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : HORIZONTAL

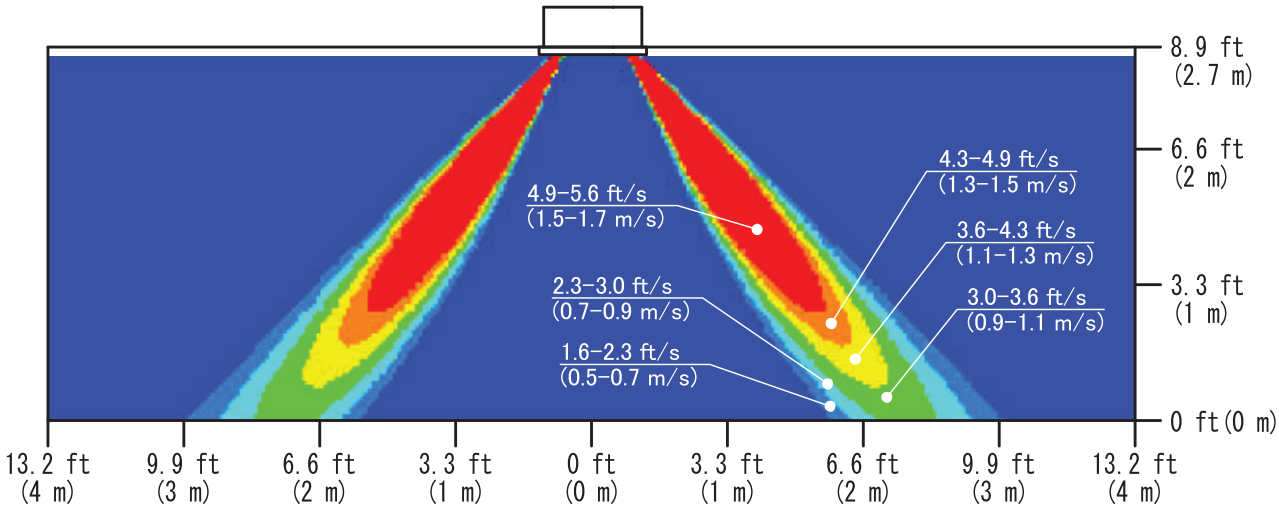


4D110257

FXZQ18TAVJU <Heating mode>

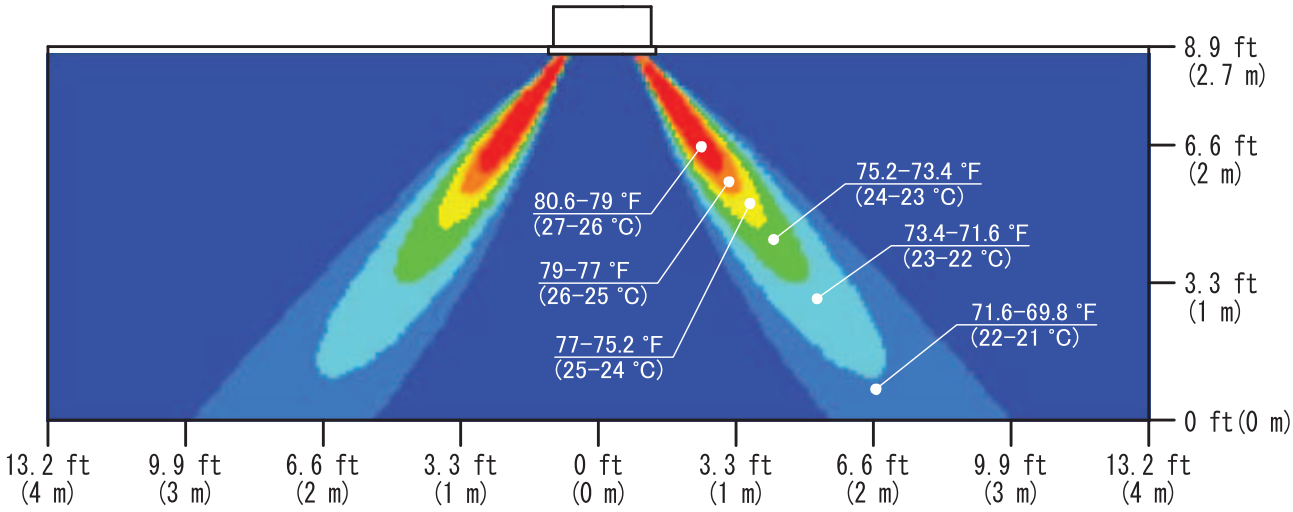
HEATING AIR VELOCITY DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : DOWNWARD



HEATING AIR TEMPERATURE DISTRIBUTION

ALL ROUND AIR DISCHARGE, AIR FLOW DIRECTION : DOWNWARD

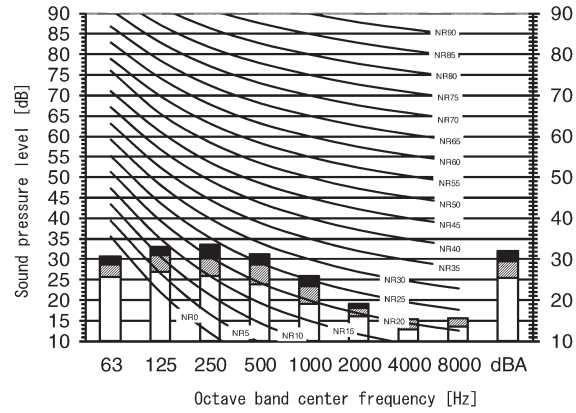


4D110266

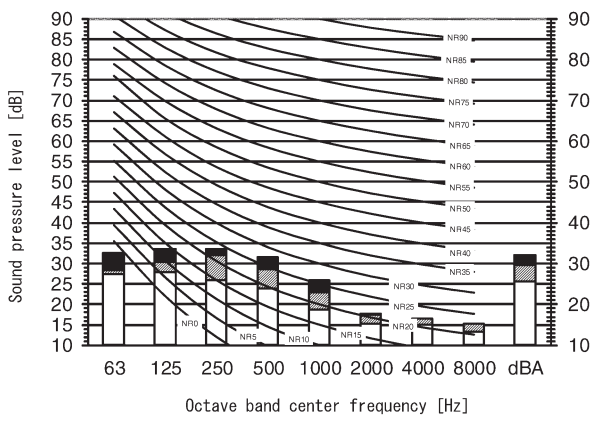
10. Sound Levels (Reference Data)

FXZQ05TAVJU / FXZQ07TAVJU

Cooling mode

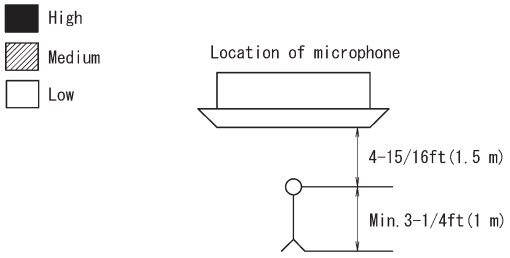


Heating mode



Legend

dBA = A-weighted sound pressure level (A scale according to IEC)



Cooling Total dBA

Scale	High	Medium	Low
dBA	32	29.5	25.5

Heating Total dBA

Scale	High	Medium	Low
dBA	32	29.5	25.5

Notes

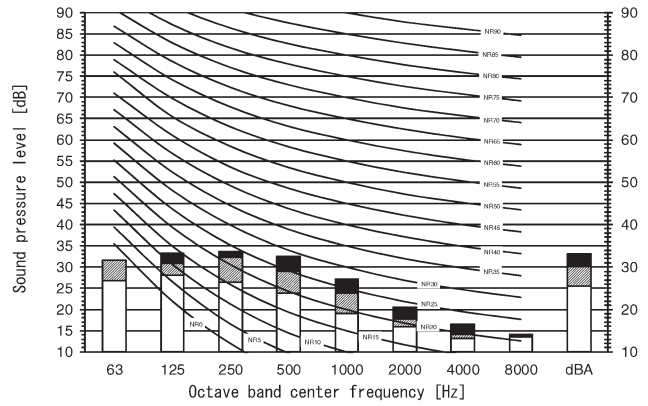
1. Data is valid at free field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Sound power [dBA]

High	49 dBA

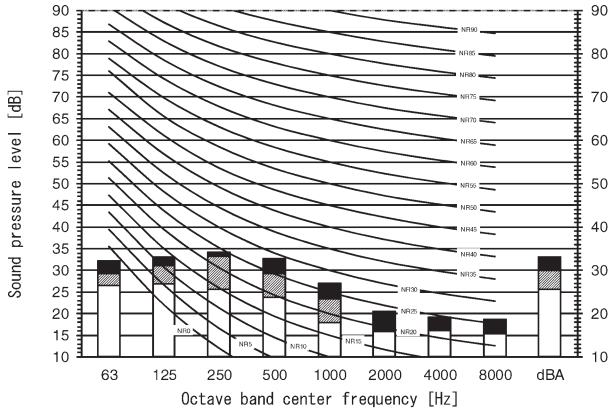
3D110239

FXZQ09TAVJU

Cooling mode

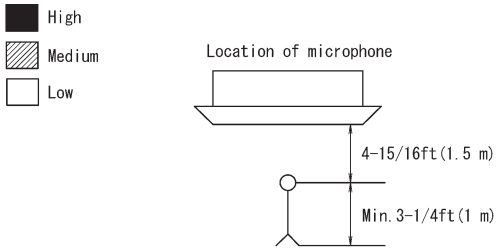


Heating mode



Legend

dBA = A-weighted sound pressure level (A scale according to IEC)



Cooling Total dBA

Scale	High	Medium	Low
dBA	33	30	25.5

Heating Total dBA

Scale	High	Medium	Low
dBA	33	30	25.5

Notes

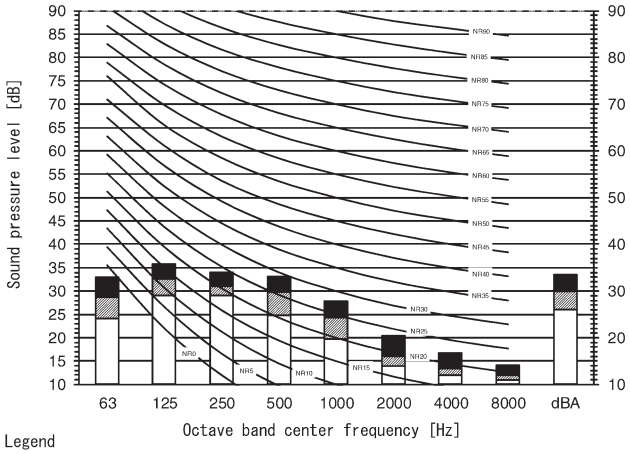
1. Data is valid at free field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Sound power [dBA]

High	50 dBA

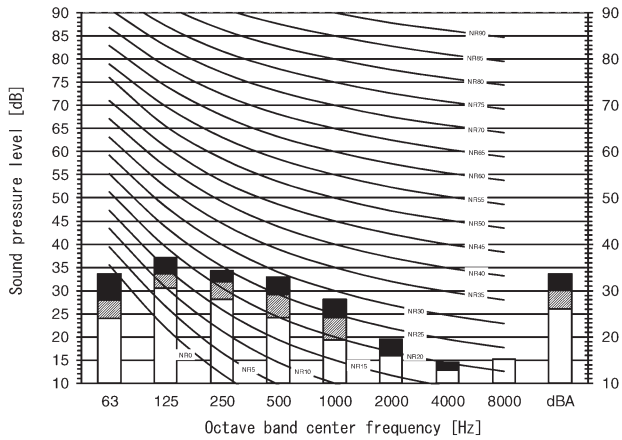
3D110241

FXZQ12TAVJU

Cooling mode

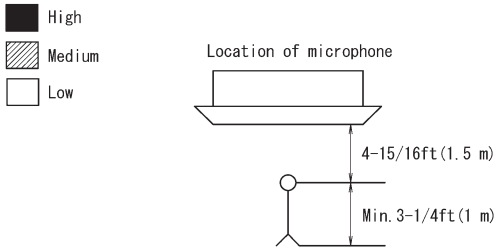


Heating mode



Legend

dBA = A-weighted sound pressure level (A scale according to IEC)



Cooling Total dBA

Scale	High	Medium	Low
dBA	33.5	30	26

Heating Total dBA

Scale	High	Medium	Low
dBA	33.5	30	26

Notes

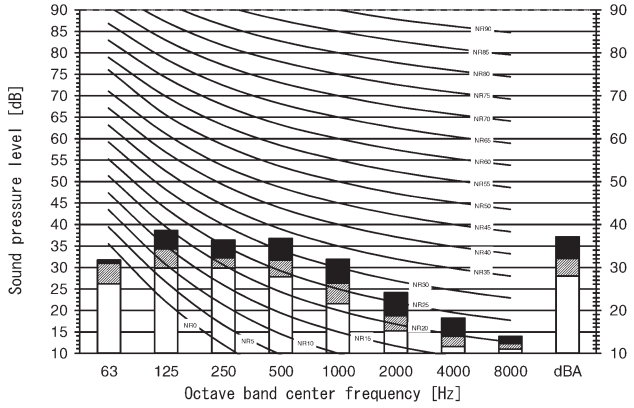
1. Data is valid at free field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Sound power [dBA]

High	51 dBA

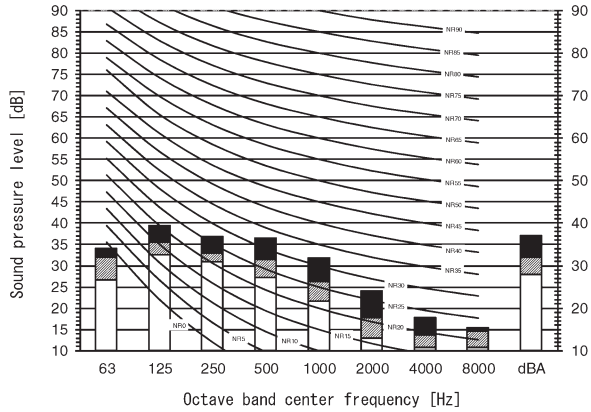
3D110242

FXZQ15TAVJU

Cooling mode

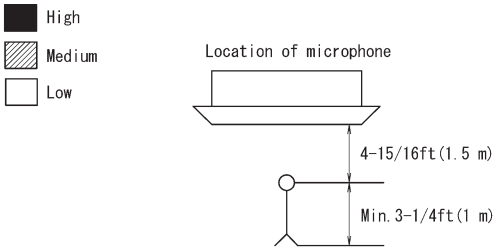


Heating mode



Legend

dBA = A-weighted sound pressure level (A scale according to IEC)



Cooling Total dBA

Scale	High	Medium	Low
dBA	37	32	28

Heating Total dBA

Scale	High	Medium	Low
dBA	37	32	28

Notes

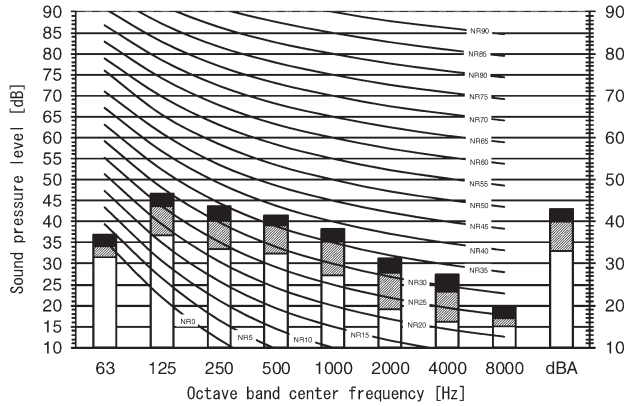
1. Data is valid at free field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Sound power [dBA]

High	54 dBA

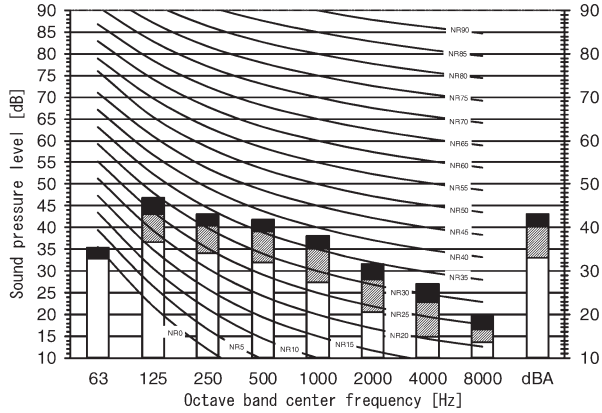
3D110247

FXZQ18TAVJU

Cooling mode

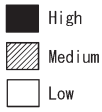


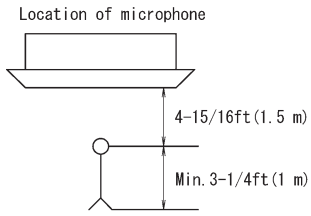
Heating mode



Legend

dBA = A-weighted sound pressure level (A scale according to IEC)





Cooling Total dBA

Scale	High	Medium	Low
dBA	43	40	33

Heating Total dBA

Scale	High	Medium	Low
dBA	43	40	33

Notes

1. Data is valid at free field condition.
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Sound power [dBA]

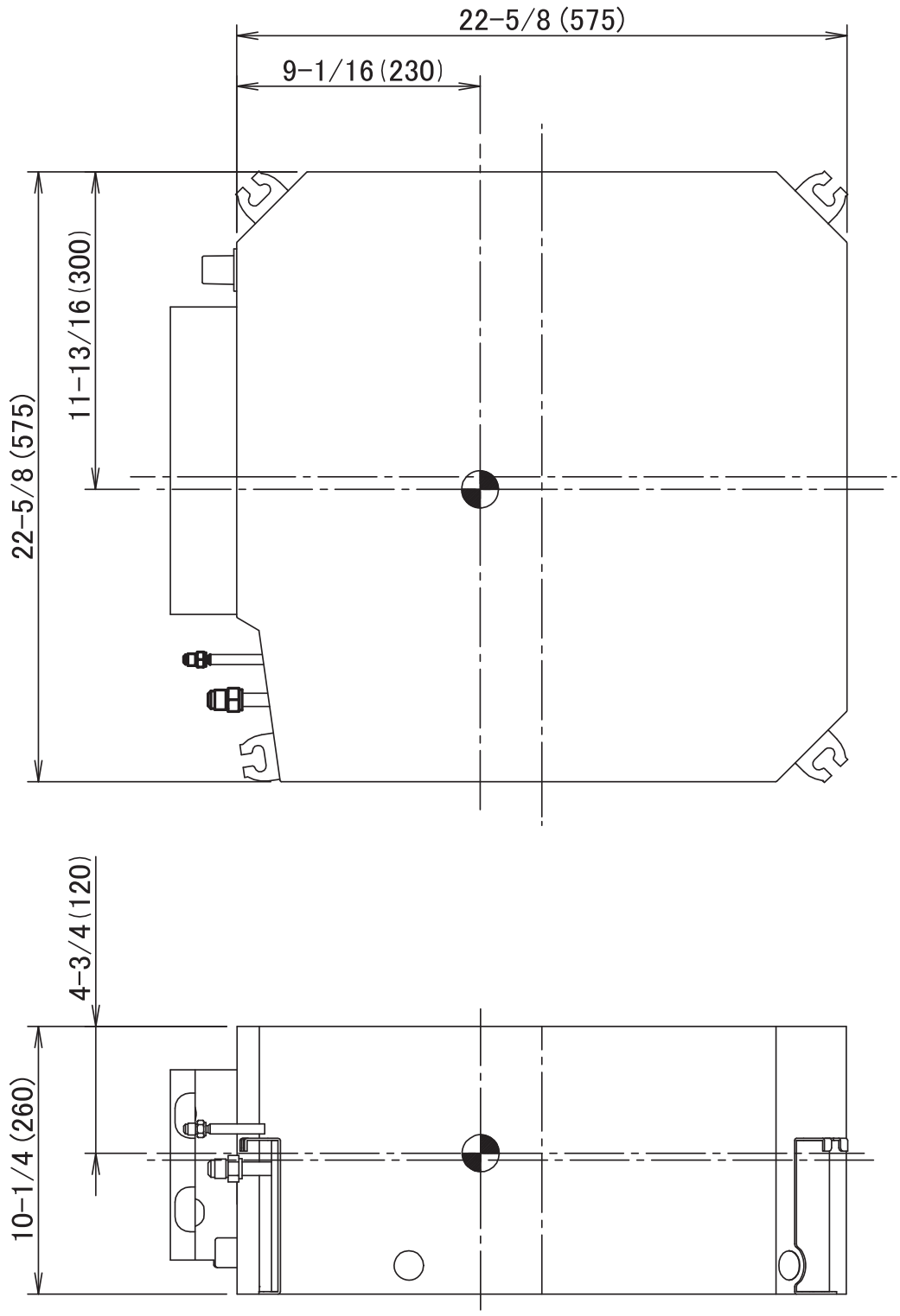
High	60 dBA

3D110248

11. Center of Gravity

FXZQ05TAVJU / FXZQ07TAVJU / FXZQ09TAVJU / FXZQ12TAVJU / FXZQ15TAVJU / FXZQ18TAVJU

Unit: in. (mm)



4D110251

12. Accessories

12.1 Optional Accessories (for Unit)

No.	Option	Note	FXZQ05TAVJU FXZQ07TAVJU FXZQ09TAVJU FXZQ12TAVJU FXZQ15TAVJU FXZQ18TAVJU
1	Decoration panel	VISTA™ white panel	BYFQ60C3W1W
		VISTA™ silver & white panel	BYFQ60C3W1S
		Legacy (FXZQ-MVJU style)	BYFQ60B3W1
2	Sensor kit	For use with BYFQ60C3W1W	BRYQ60A2W
		For use with BYFQ60C3W1S	BRYQ60A2S
3	Sealing member of air discharge outlet	For use with BYFQ60C3W1W, BYFQ60C3W1S, and BYFQ60B3W1	BDBHQ44C60
4	Panel spacer	For use with BYFQ60B3W1	KDBQ44BA60A
5	Replacement long life filter	For use with BYFQ60C3W1W, BYFQ60C3W1S, and BYFQ60B3W1	KAFQ441BA60
6	Fresh air intake kit		KDDQ44XA60

C: 4D110595

12.2 Optional Accessories (for Controls)

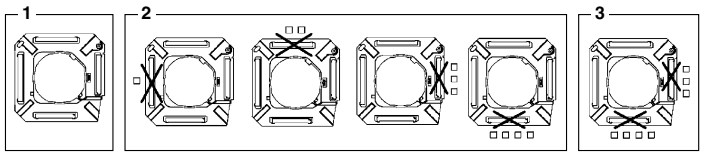
No.	Option	Note	FXZQ05TAVJU FXZQ07TAVJU FXZQ09TAVJU FXZQ12TAVJU FXZQ15TAVJU FXZQ18TAVJU
1	Infrared remote controller	For use with BYFQ60C3W1W	BRC082A42W
		For use with BYFQ60C3W1S	BRC082A42S
		For use with BYFQ60B3W1	BRC082A41W
2	Wired remote controller		BRC1E73
3	Central remote controller		DCS302C71
4	Unified ON/OFF controller		DCS301C71
5	Schedule timer		DST301BA61
6	Adaptor for wiring		KRP1C75
7	Wiring adaptor for electrical appendices		KRP4A74
8	Installation box for adaptor printed circuit board		KRP1BA101
9	Remote sensor		KRCS01-4B
10	intelligent Touch Manager		DCM601A71
			DCM601A72

C: 4D110595

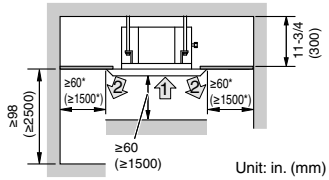
Appendix 1 Installation of FXZQ-TAVJU

1. Installation Manual

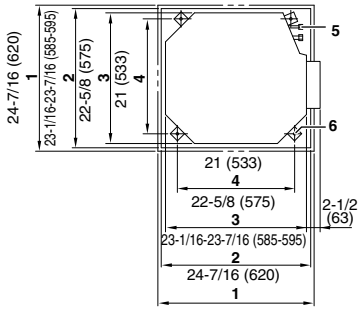
FXZQ05TAVJU / FXZQ07TAVJU / FXZQ09TAVJU / FXZQ12TAVJU / FXZQ15TAVJU / FXZQ18TAVJU

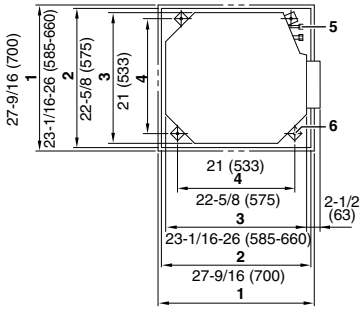


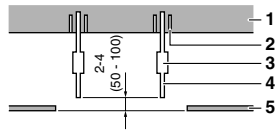
1



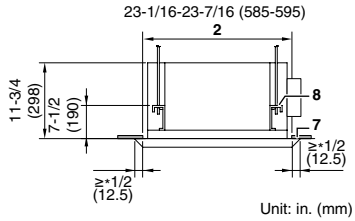
2



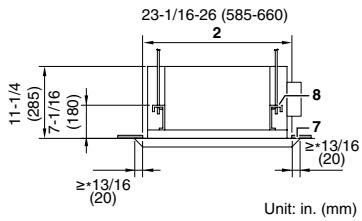




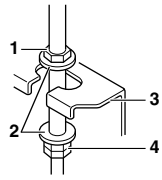
4



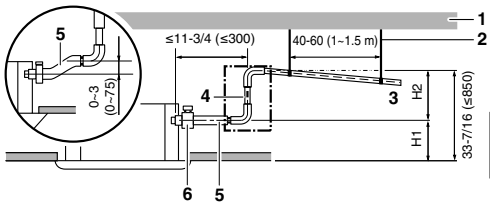
3.1



3.2



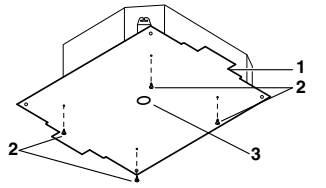
5



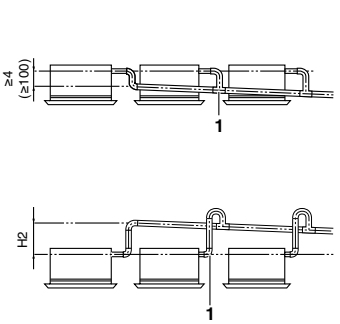
	H1	H2
BYFQ60C	8-1/16 (205)	≤25-3/8 (≤645)
BYFQ60B	8-11/16 (220)	≤24-13/16 (≤630)

Unit: in. (mm)

6



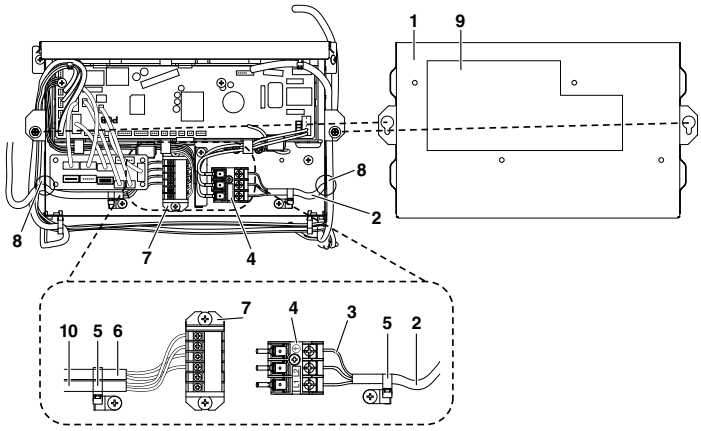
7



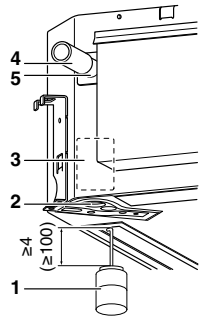
	H2
BYFQ60C	≤25-3/8 (≤645)
BYFQ60B	≤24-13/16 (≤630)

Unit: in. (mm)

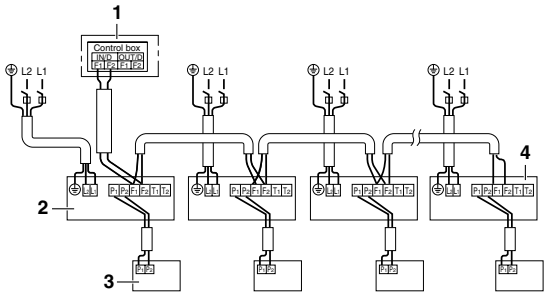
8



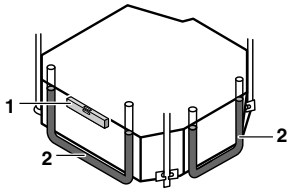
9



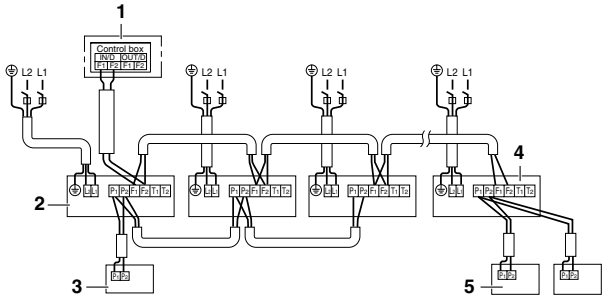
10



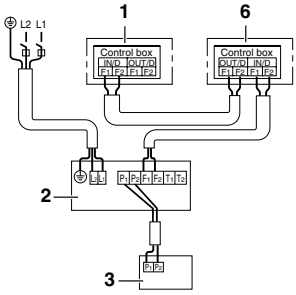
12



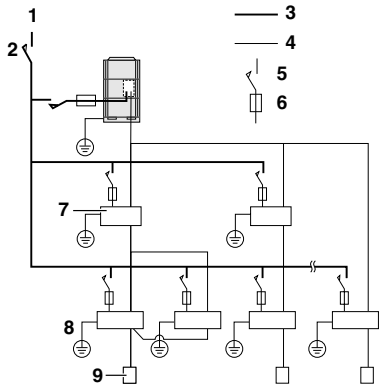
11



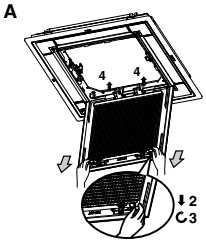
13



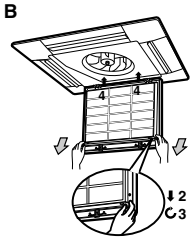
14

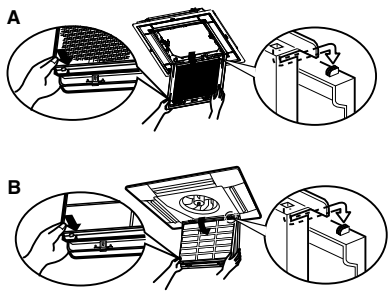


15

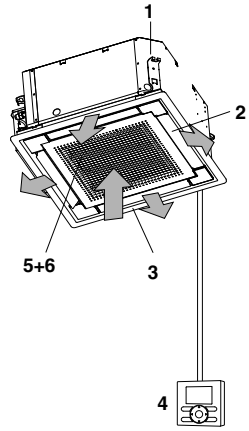


16





17



18

3P493125-1

SAFETY CONSIDERATIONS

Read these ***SAFETY CONSIDERATIONS for Installation*** carefully before installing air conditioning equipment. After completing the installation, make sure that the unit operates properly during the startup operation.
Instruct the customer on how to operate and maintain the unit. Inform customers that they should store this Installation Manual with the Operation Manual for future reference.
Always use a licensed installer or contractor to install this product. Improper installation can result in water or refrigerant leakage, electrical shock, fire, or explosion.
Meanings of **DANGER**, **WARNING**, **CAUTION**, and **NOTE** Symbols:

DANGER .....Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

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.

NOTE .....Indicates situations that may result in equipment or property-damage accidents only.

DANGER

- **Refrigerant gas is heavier than air and replaces oxygen.**
  A massive leak can lead to oxygen depletion, especially in basements, and an asphyxiation hazard could occur leading to serious injury or death.
- **Do not ground units to water pipes, gas pipes, telephone wires, or lightning rods as incomplete grounding can cause a severe shock hazard resulting in severe injury or death. Additionally, grounding to gas pipes could cause a gas leak and potential explosion causing severe injury or death.**
- **If refrigerant gas leaks during installation, ventilate the area immediately. Refrigerant gas may produce toxic gas if it comes in contact with fire. Exposure to this gas could cause severe injury or death.**
- **After completing the installation work, check that the refrigerant gas does not leak throughout the system.**
- **Do not install unit in an area where flammable materials are present due to risk of explosions that can cause serious injury or death.**
- **Safely dispose all packing and transportation materials in accordance with federal/state/local laws or ordinances. Packing materials such as nails and other metal or wood parts, including plastic packing materials used for transportation may cause injuries or death by suffocation.**

WARNING

- **Only qualified personnel must carry out the installation work. Installation must be done in accordance with this installation manual. Improper installation may result in water leakage, electric shock, or fire.**
- **When installing the unit in a small room, take measures to keep the refrigerant concentration from exceeding allowable safety limits. Excessive refrigerant leaks, in the event of an accident in a closed ambient space, can lead to oxygen deficiency.**
- **Use only specified accessories and parts for installation work. Failure to use specified parts may result in water leakage, electric shocks, fire, or the unit falling.**
- **Install the air conditioner or heat pump on a foundation strong enough that it can withstand the weight of the unit. A foundation of insufficient strength may result in the unit falling and causing injuries.**
- **Take into account strong winds, typhoons, or earthquakes when installing. Improper installation may result in the unit falling and causing accidents.**
- **Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel according to local, state and national regulations. An insufficient power supply capacity or improper electrical construction may lead to electric shocks or fire.**
- **Make sure that all wiring is secured, that specified wires are used, and that no external forces act on the terminal connections or wires. Improper connections or installation may result in fire.**
- **When wiring, position the wires so that the control box lid can be securely fastened. Improper positioning of the control box lid may result in electric shocks, fire, or the terminals overheating.**
- **Before touching electrical parts, turn off the unit.**
- **This equipment can be installed with a Ground-Fault Circuit Breaker (GFCI). Although this is a recognized measure for additional protection, with the earthing system in North America, a dedicated GFCI is not necessary.**
- **When installing or relocating the system, keep the refrigerant circuit free from substances other than the specified refrigerant (R410A) such as air. Any presence of air or other foreign substance in the refrigerant circuit can cause an abnormal pressure rise or rupture, resulting in injury.**
- **Do not change the setting of the protection devices. If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by Daikin are used, fire or explosion may occur.**

⚠ CAUTION

- **Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.**
- **Do not allow children to play on or around the unit to prevent injury.**
- **Do not touch the refrigerant pipes during and immediately after operation as the refrigerant pipes may be hot or cold, depending on the condition of the refrigerant flowing through the refrigerant piping, compressor, and other refrigerant cycle parts. Your hands may suffer burns or frostbite if you touch the refrigerant pipes. To avoid injury, give the pipes time to return to normal temperature or, if you must touch them, be sure to wear proper gloves.**
- **Heat exchanger fins are sharp enough to cut. To avoid injury wear gloves or cover the fins when working around them.**
- **Install drain piping to proper drainage. Improper drain piping may result in water leakage and property damage.**
- **Insulate piping to prevent condensation.**
- **Be careful when transporting the product.**
- **Do not turn off the power supply immediately after stopping operation. Always wait for at least 5 minutes before turning off the power supply. Otherwise, water leakage may occur.**
- **Do not use a charging cylinder. Using a charging cylinder may cause the refrigerant to deteriorate.**
- **Refrigerant R410A in the system must be kept clean, dry, and tight.**
  - **(a) Clean and Dry - Foreign materials (including mineral oils such as SUNISO oil or moisture) should be prevented from getting into the system.**
  - **(b) Tight - R410A does not contain any chlorine, does not destroy the ozone layer, and does not reduce the earth's protection again harmful ultraviolet radiation. R410A can contribute to the greenhouse effect if it is released. Therefore take proper measures to check for the tightness of the refrigerant piping installation. Read the chapter Refrigerant Piping Work and follow the procedures.**
- **Since R410A is a blend, the required additional refrigerant must be charged in its liquid state. If the refrigerant is charged in a state of gas, its composition can change and the system will not work properly.**
- **The indoor unit is for R410A. See the catalog for indoor models that can be connected. Normal operation is not possible when connected to other units.**
- **Remote controller (wireless kit) transmitting distance can be shorter than expected in rooms with electronic fluorescent lamps (inverter or rapid start types). Install the indoor unit far away from fluorescent lamps as much as possible.**
- **Indoor units are for indoor installation only. Outdoor units can be installed either outdoors or indoors.**
- **Do not install the air conditioner or heat pump in the following locations:**
  - **(a) Where a mineral oil mist or oil spray or vapor is produced, for example, in a kitchen. Plastic parts may deteriorate and fall off or result in water leakage.**
  - **(b) Where corrosive gas, such as sulfurous acid gas, is produced. Corroding copper pipes or soldered parts may result in refrigerant leakage.**
  - **(c) Near machinery emitting electromagnetic waves. Electromagnetic waves may disturb the operation of the control system and cause the unit to malfunction.**
  - **(d) Where flammable gas may leak, where there is carbon fiber, or ignitable dust suspension in the air, or where volatile flammables such as thinner or gasoline are handled. Operating the unit in such conditions can cause a fire.**

⚠ NOTE

- **Install the power supply and transmission wires for the indoor and outdoor units at least 3.5 feet away from televisions or radios to prevent image interference or noise. Depending on the radio waves, a distance of 3.5 feet may not be sufficient to eliminate the noise.**
- **Dismantling the unit, treatment of the refrigerant, oil and additional parts must be done in accordance with the relevant local, state, and national regulations.**
- **Do not use the following tools that are used with conventional refrigerants: gauge manifold, charge hose, gas leak detector, reverse flow check valve, refrigerant charge base, vacuum gauge, or refrigerant recovery equipment.**
- **If the conventional refrigerant and refrigerator oil are mixed in R410A, the refrigerant may deteriorate.**
- **This air conditioner or heat pump is an appliance that should not be accessible to the general public.**
- **As design pressure is 478 psi, the wall thickness of field-installed pipes should be selected in accordance with the relevant local, state, and national regulations.**

DAIKIN

FXZQ05TAVJU FXZQ12TAVJU
FXZQ07TAVJU FXZQ15TAVJU
FXZQ09TAVJU FXZQ18TAVJU

VRV SYSTEM Inverter Air Conditioners

Installation manual

Contents

READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLATION. KEEP THIS MANUAL IN A HANDY PLACE FOR FUTURE REFERENCE.

IMPROPER INSTALLATION OR ATTACHMENT OF EQUIPMENT OR ACCESSORIES COULD RESULT IN ELECTRIC SHOCK, SHORT-CIRCUIT, LEAKS, FIRE OR OTHER DAMAGE TO THE EQUIPMENT. BE SURE ONLY TO USE ACCESSORIES MADE BY DAIKIN WHICH ARE SPECIFICALLY DESIGNED FOR USE WITH THE EQUIPMENT AND HAVE THEM INSTALLED BY A PROFESSIONAL.

IF UNSURE OF INSTALLATION PROCEDURES OR USE, ALWAYS CONTACT YOUR DAIKIN DEALER FOR ADVICE AND INFORMATION.

The English text is the original instruction. Other languages are translations of the original instructions.

Before installation

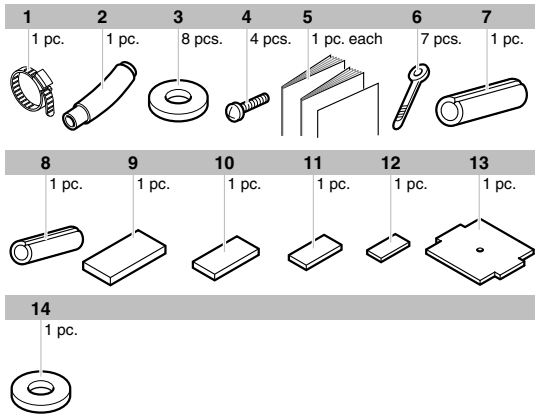
- Leave the unit inside its packaging until you reach the installation site. Where unpacking is unavoidable, use a sling of soft material or protective plates together with a rope when lifting, this to avoid damage or scratches to the unit.
  When unpacking the unit or when moving the unit after unpacking, be sure to lift the unit by holding on to the hanger bracket without exerting any pressure on other parts, especially on refrigerant piping, drain piping and other resin parts.
- Refer to the installation manual of the outdoor unit for items not described in this manual.
- Caution concerning refrigerant series R410A:
  The connectable outdoor units must be designed exclusively for R410A.

Precautions

- This appliance is not intended for use by persons, including children, with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
  Children should be supervised to ensure that they do not play with the appliance.
- This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.
- Do not install or operate the unit in rooms mentioned below.
  - Places with mineral oil, or filled with oil vapour or spray like in kitchens. (Plastic parts may deteriorate.)
  - Where corrosive gas like sulphurous gas exists. (Copper tubing and brazed spots may corrode.)
  - Where volatile flammable gas like thinner or gasoline is used.
  - Where machines generating electromagnetic waves exist. (Control system may malfunction.)
  - Where the air contains high levels of salt such as air near the ocean and where voltage fluctuates a lot (e.g. in factories). Also in vehicles or vessels.
- When selecting the installation site, use the supplied paper pattern for installation.
- Do not install accessories on the casing directly. Drilling holes in the casing may damage electrical wires and consequently cause fire.

Accessories

Check if the following accessories are included with your unit.



1 Metal clamp
2 Drain hose
3 Washer for hanger bracket
4 Screw
5 Installation and operation manuals
6 Clamp
7 Insulation for fitting for gas pipe
8 Insulation for fitting for liquid pipe
9 Large sealing pad
10 Medium 1 sealing pad
11 Medium 2 sealing pad
12 Small sealing pad
13 Paper pattern for installation (cut out from upper part of packing)
14 Washer for conduit

3P493125-1

Optional accessories

- There are two types of remote controllers: wired and wireless. Select a remote controller according to customer's request and install in an appropriate place. Refer to catalogues and technical literature for selecting a suitable remote controller.
- This indoor unit requires installation of an optional decoration panel.

For the following items, take special care during construction and check after installation is finished

Tick ✓ when checked	
☐	Is the indoor unit fixed firmly? The unit may drop, vibrate or make noise.
☐	Is the air tight test finished? It may result in insufficient cooling or heating.
☐	Is the unit fully insulated? Condensate water may drip.
☐	Does drainage flow smoothly? Condensate water may drip.
☐	Does the power supply voltage correspond to that shown on the name plate? The unit may malfunction or components may burn out.
☐	Are wiring and piping correct? The unit may malfunction or components may burn out.
☐	Is the unit safely grounded? There may be danger of electric shock.
☐	Is the wiring sized according to specifications? The unit may malfunction or components may burn out.
☐	Is nothing blocking the air outlet or inlet of either the indoor or outdoor units? It may result in insufficient cooling or heating.
☐	Are refrigerant piping length and additional refrigerant charge noted down? The refrigerant charge in the system might not be clear.

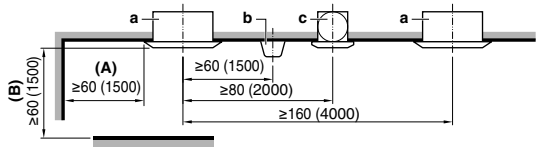
Notes to the installer

- Read this manual carefully to ensure correct installation. Be sure to instruct the customer how to properly operate the system and show him/her the enclosed operation manual.

Selecting installation site

When the conditions in the ceiling are exceeding 80°F (30°C) and a relative humidity of 80%, or when fresh air is inducted into the ceiling, an additional insulation is required (minimum 3/8 in. (10 mm) thickness, polyethylene foam).
For this unit you can select different air flow directions. It is necessary to purchase an optional blocking pad kit to discharge the air in 2 or 3 (closed corners) directions.

Install the unit so that air vents, lights, or machines near the unit do not interfere with the air flow.



Unit: in. (mm)

a Indoor unit

b Lighting
The figure describes a surface mounted light, but a recessed ceiling light is not restricted.

c Air fan

A If the air outlet is closed, space marked (A) should be 8 in. (200 mm) at least.

B ≥60 in. (≥1500 mm) from any static obstruction

1 Select an installation site where the following conditions are fulfilled and that meets your customer's approval.

- Where optimum air distribution can be ensured.
- Where nothing blocks air passage.
- Where condensate water can be properly drained.
- Where the false ceiling is not noticeably on an incline.
- Where sufficient clearance for maintenance and service can be ensured.
- Where there is no risk of flammable gas leaking.
- The equipment is not intended for use in a potentially explosive atmosphere.
- Where piping between indoor and outdoor units is possible within the allowable limit. (Refer to the installation manual of the outdoor unit.)
- Keep indoor unit, outdoor unit, transmission wiring and remote controller wiring at least 40 in. (1 m) away from televisions and radios. This is to prevent image interference and noise in those electrical appliances. (Noise may be generated depending on the conditions under which the electric wave is generated, even if 40 in. (1 m) is kept.)
- When installing the wireless remote controller kit, the communication distance between wireless remote controller and indoor unit might be reduced if there are fluorescent lights who are electrically started in the room. The indoor unit must be installed as far as possible away from fluorescent lights.

2 Ceiling height
This indoor unit may be installed on ceilings up to 11-1/2 ft. (3.5 m) in height. However, it becomes necessary to make field settings using the remote controller when installing the unit at a height over 8-3/4 ft. (2.7 m).
To avoid accidental touching, it is recommended to install the unit higher than 8-1/4 ft. (2.5 m).
Refer to "Field setting" on page 8 and to the decoration panel installation manual.

3 Air flow directions
Select the air flow directions best suited to the room and point of installation. (For air discharge in 3 directions, it is necessary to make field settings by means of the remote controller and to close the air outlet(s). Refer to the installation manual of the optional blocking pad kit and to "Field setting" on page 8. (See figure 1)

1 Air discharge in 4 directions

2 Air discharge in 3 directions

3 Air discharge in 2 directions

4 Use suspension bolts for installation. Check whether the ceiling is strong enough to support the weight of the indoor unit. If there is a risk, reinforce the ceiling before installing the unit.
(The installation pitch is marked on the paper pattern for installation. Refer to it to check for points requiring reinforcing.)
Space required for installation see figure 2 (⇧: air flow direction)

1 Air inlet
2 Air discharge

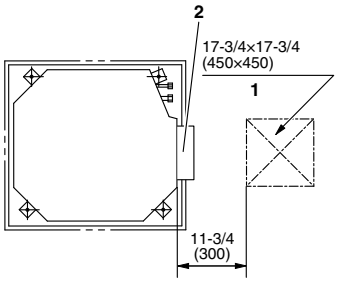
NOTE
Leave 8 in. (200 mm) or more space where marked with *, on sides where the air outlet is closed.

Preparations before installation

1 Relation of ceiling opening to unit and suspension bolt position.
In case of decoration panel
BYFQ60C: See figure 3.1
BYFQ60B: See figure 3.2

1 Decoration panel dimensions
2 Ceiling opening dimensions
3 Indoor unit dimensions
4 Suspension bolt pitch dimensions
5 Refrigerant piping
6 Suspension bolt (x4)
7 False ceiling
8 Hanger bracket

■ Install the inspection opening on the control box side where maintenance and inspection of the control box and drain pump are easy.



1 Inspection opening
2 Control box

In case of decoration panel BYFQ60B

NOTE
Installation is possible with a ceiling dimension of 26 in. (660 mm). However, to achieve a ceiling-panel overlapping dimension of 13/16 in. (20 mm) (marked with*), the spacing between the ceiling and the unit should be 1-12/16 in. (45 mm) or less. If the spacing between ceiling and the unit is over 1-12/16 in. (45 mm), attach ceiling material to the part or recover the ceiling.

2 Make the ceiling opening needed for installation where applicable. (For existing ceilings.)
- Refer to the paper pattern for installation for the ceiling opening dimensions.
- Create the ceiling opening required for installation. From the side of the opening to the casing outlet or inspection opening, implement the refrigerant and drain piping and wiring for remote controller (unnecessary for wireless type). Refer to each piping or wiring section.
- After making an opening in the ceiling, it may be necessary to reinforce ceiling beams to keep the ceiling level and to prevent it from vibrating. Consult the builder for details.

3 Install the suspension bolts.
(Use either a M8-M10 size bolt or equivalent.)
Use anchors for existing ceilings, and a sunken insert, sunken anchors or other field supplied parts for new ceilings to reinforce the ceiling in order to bear the weight of the unit. Adjust clearance from the ceiling before proceeding further.
Installation example (See figure 4)

1 Ceiling slab
2 Anchor
3 Long nut or turn-buckle
4 Suspension bolt
5 False ceiling

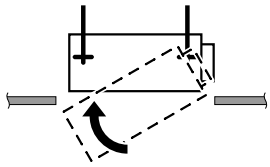
NOTE
■ All the above parts are field supplied.
■ For other installation than standard installation, contact your dealer for details.

Indoor unit installation

When installing optional accessories (except for the decoration panel), read also the installation manual of the optional accessories. Depending on the field conditions, it may be easier to install optional accessories before the indoor unit is installed. However, for existing ceilings, always install fresh air intake kit before installing the unit.

1 Install the unit in the ceiling opening.
- Attach the hanger bracket to the suspension bolt. Be sure to fix it securely by using a nut and washer from the upper and lower sides of the hanger bracket.
- Securing the hanger bracket (See figure 5)

1 Nut (field supply)
2 Washer (supplied with the unit)
3 Hanger bracket
4 Double nut (field supply, tighten)



2 Fix the paper pattern for installation. (For new ceilings only.)
- The paper pattern for installation corresponds with the measurements of the ceiling opening. Consult the builder for details.
- The center of the ceiling opening is indicated on the paper pattern for installation. The center of the unit is indicated on the unit casing.
- The printing pattern can be rotated by 90° to be able to indicate the correct dimensions on all 4 sides.
- After cutting of the printing pattern for installation from packing, attach the paper pattern for installation to the unit with the attached screws as shown in figure 7.

1 Paper pattern for installation
2 Screws (supplied with the unit)
3 Center of the ceiling opening

3P493125-1

3 Adjust the unit to the right position for installation.
(See "Preparations before installation" on page 3.)

4 Check if the unit is horizontally levelled.
- Do not install the unit tilted. The indoor unit is equipped with a built-in drain pump and float switch. (If the unit is tilted against the direction of the condensate flow (the drain piping side is raised), the float switch may malfunction and cause water to drip.)
- Check if the unit is levelled at all four corners with a water level or a water-filled vinyl tube as shown in figure 11.

1 Water level
2 Vinyl tube

5 Remove the paper pattern for installation. (For new ceilings only.)

Refrigerant piping work

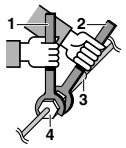
For refrigerant piping of outdoor unit, refer to the installation manual supplied with the outdoor unit.

Execute thermal insulation work completely on both sides of the gas piping and liquid piping. Otherwise, this can sometimes result in water leakage.

Before rigging pipes, check which type of refrigerant is used.

Installation shall be done by a licensed refrigeration technician, the choice of materials and installation shall comply with the applicable national and international codes.

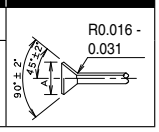
- Use a pipe cutter and flare suitable for R410A refrigerant.
- To prevent dust, moisture or other foreign matter from infiltrating the tube, either pinch the end, or cover it with tape.
- The outdoor unit is charged with refrigerant.
- To prevent water leakage, execute thermal insulation work completely on both sides of the gas and liquid piping. When using a heat pump, the temperature of the gas piping can reach up to approximately 250°F (120°C), use insulation which is sufficiently heat resistant.
- Be sure to use both a spanner and torque wrench together when connecting or disconnecting pipes to/from the unit.



1 Torque wrench
2 Spanner
3 Piping union
4 Flare nut

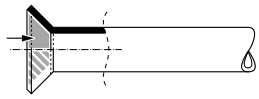
- Do not mix anything other than the specified refrigerant, such as air, etc. inside the refrigerant circuit.
- Only use annealed material for flare connections.
- Refer to Table 1 for the dimensions of flare nut spaces and the appropriate tightening torque. (Overtightening may damage the flare and cause leaks.)

Table 1

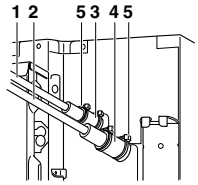
Pipe size	Tightening torque	Flare dimensions A (in.)	Flare
ϕ1/4"	10.4-12.7 ft·lbf	0.342-0.358	
ϕ1/2"	36.5-44.5 ft·lbf	0.638-0.654	

- Refer to **Table 1** to determine the proper tightening torque.

- When connecting the flare nut, coat the flare inner surface with ether oil or ester oil and initially tighten 3 or 4 turns by hand before tightening firmly.

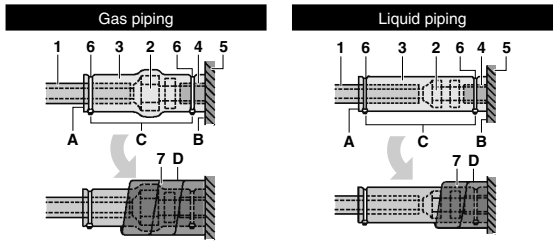


- If the refrigerant gas leaks during the work, ventilate the area. A toxic gas is emitted by the refrigerant gas being exposed to a fire.
- Make sure there is no refrigerant gas leak. A toxic gas may be released by the refrigerant gas leaking indoor and being exposed to flames from an area heater, cooking stove, etc.
- Finally, insulate as shown in the figure below (use the supplied accessory parts).



1 Liquid pipe
2 Gas pipe
3 Insulation for fitting for liquid pipe
4 Insulation for fitting for gas pipe
5 Clamps (use 2 clamps per insulation)

Piping insulation procedure



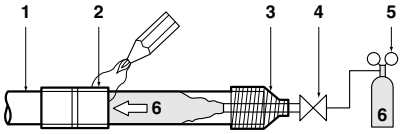
1 Piping insulation material (field supply)
2 Flare nut connection
3 Insulation for fitting (delivered with the unit)
4 Piping insulation material (main unit)
5 Main unit
6 Clamp (field supply)
7 Medium 1 sealing pad for gas piping (delivered with the unit)
Medium 2 sealing pad for liquid piping (delivered with the unit)
A Turn seams up
B Attach to base
C Tighten the part other than the piping insulation material
D Wrap over from the base of the unit to the top of the flare nut connection

- For local insulation, be sure to insulate local piping all the way into the pipe connections inside the unit.
Exposed piping may cause condensation or may cause burns when touched.
- Make sure that no oil remains on plastic parts of the decoration panel (optional equipment).
Oil may cause degradation and damage to plastic parts.

Cautions for brazing

■ Be sure to carry out a nitrogen blow when brazing.
Brazing without carrying out nitrogen replacement or releasing nitrogen into the piping will create large quantities of oxidized film on the inside of the pipes, adversely affecting valves and compressors in the refrigerating system and preventing normal operation.

■ When brazing while inserting nitrogen into the piping, nitrogen must be set to 2.9 psi (0.02 MPa) with a pressure-reducing valve (=just enough so that it can be felt on the skin).

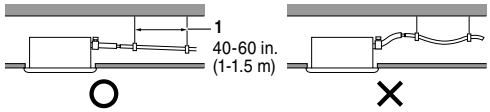


1 Refrigerant piping
2 Part to be brazed
3 Taping
4 Hand valve
5 Pressure-reducing valve
6 Nitrogen

Drain piping work

Installation of drain piping

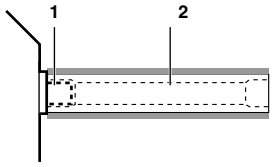
Install the drain piping as shown in the figure and take measures against condensation. Improperly rigged piping could lead to leaks and eventually wet furniture and belongings.



1 Hanging bar

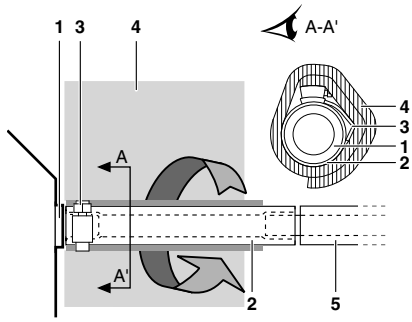
■ Install the drain pipes.

- Keep piping as short as possible and slope it downwards at a gradient of at least 1/100 so that air may not remain trapped inside the pipe.
- Keep pipe size equal to or greater than that of the connecting pipe (vinyl pipe of 13/16 in. (20 mm) nominal diameter and 1 in. (25 mm) outer diameter, without vertical rise pipe).
- Push the supplied drain hose as far as possible over the drain socket.



1 Drain socket (attached to the unit)
2 Drain hose (supplied with the unit)

- Tighten the metal clamp as indicated in the illustration.
- After the testing of drain piping is finished, attach the drain sealing pad (4) supplied with the unit over the uncovered part of the drain socket (= between drain hose and unit body).



1 Drain socket (attached to the unit)
2 Drain hose (supplied with the unit)
3 Metal clamp (supplied with the unit)
NOTE: Bend the tip of the metal clamp without tearing the sealing.
4 Large sealing pad (supplied with the unit)
5 Drain piping (field supply)

- Wrap the supplied large sealing pad over the metal clamp and drain hose to insulate and fix it with clamps.
- Insulate the complete drain piping inside the building (field supply).
- If the drain hose cannot be sufficiently set on a slope, fit the hose with drain raising piping (field supply).

■ How to perform piping (See figure 6)

1 Ceiling slab
2 Hanging bar
3 Adjustable range
4 Drain raising pipe (nominal diameter of vinyl pipe =1 in. (25 mm))
5 Drain hose (supplied with the unit)
6 Metal clamp (supplied with the unit)

- Connect the drain hose to the drain raising pipes, and insulate them.
- Connect the drain hose to the drain outlet on the indoor unit, and tighten it with the clamp.

■ Precautions

- Install the drain raising pipes at a height of less than H2.
- Install the drain raising pipes at a right angle to the indoor unit and no more than 11-3/4 in. (300 mm) from the unit.
- To prevent air bubbles, install the drain hose level or slightly tilted up (≤3 in. (≤75 mm)).
- Drain pump mounted in this unit is high lift type. Characteristic of this pump is that the higher lifting height, the lower drainage sound. Therefore drain lifting height of 11-3/4 in. (300 mm) is recommended.

Decoration panel	H2
BYFQ60C	25-6/16 in. (645 mm)
BYFQ60B	24-13/16 in. (630 mm)

NOTE

The incline of attached drain hose should be 3 in. (75 mm) or less so that the drain socket does not have to withstand additional force.
To ensure a downward slope of 1:100, install hanging bars every 39-1/2 in. (1 m) to 60 in. (1.5 m).
When unifying multiple drain pipes, install the pipes as shown in figure 8. Select converging drain pipes whose gauge is suitable for the operating capacity of the units.

1 T-joint converging drain pipes

Testing of drain piping

After the piping work is finished, check if drainage flows smoothly.

■ Add approximately 0.25 gal (1 ℓ) of water gradually through the air discharge outlet.
Method of adding water (See figure 10)

1 Plastic watering can (tube should be about 4 in. (100 mm) long)
2 Service drain outlet (with rubber plug) (Use this outlet to drain water from the drain pan)
3 Drain pump location
4 Drain pipe
5 Drain socket (water flow view point)

■ Check the drainage flow.

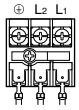
■ In case electric wiring work is finished
Check drainage flow during cooling operation, explained in "Test operation" on page 10.

■ In case electric wiring work is not finished

- Remove the control box lid by means of two screws. Connect the single-phase power supply (208/230V 60Hz) to connections L1 and L2 on the terminal block power supply and connect the ground wire firmly (See figure 9).
- Reattach the control box lid and turn on the power.
- Do not touch the drain pump. It may result in electric shock.

1 Control box lid
2 Power supply wiring
3 Ground wire
4 Terminal block for power supply
5 Clamp
6 Transmission wiring
7 Terminal block for transmission wiring
8 Openings for wires
9 Wiring diagram label (on the back side of the control box lid)
10 Remote controller wiring

Terminal block for power supply (4)



- Confirm the drain operation looking at the drain socket.
- After checking the drainage flow, turn off power, remove the control box lid and disconnect the power supply wiring from the terminal block for power supply again. Attach the control box lid as before.

Electric wiring work

General instructions

■ All field wiring and components must be installed by a licensed electrician and must comply with relevant national, state and local code.

■ Use copper wire only.

■ Follow the 'Wiring diagram label' attached to the back side of the control box lid to wire outdoor unit, indoor units and the remote controller. For details on hooking up the remote controller, refer to the "Installation manual of the remote controller".

■ All wiring must be performed by an authorized electrician.

■ A main switch or other means for disconnection, having a contact separation in all poles, must be incorporated in the fixed wiring in accordance with relevant local and national code.

■ Note that the operation will restart automatically if the main power supply is turned off and then turned back on again.

■ Be sure to ground the air conditioner.

■ Do not connect the ground wire to:

- gas pipes: might cause explosions or fire if gas leaks.
- telephone ground wires or lightning rods: might cause abnormally high electric potential in the ground during lightning storms.
- plumbing pipes: no grounding effect if hard vinyl piping is used.

Electrical characteristics

Indoor units				Power supply		Fan motor	
Model	Hz	Volts	Voltage range	MCA	MOP	KW	FLA
FXZQ05TAVJU	60	208-230	MAX.253 MIN.187	0.3	15	0.05	0.2
FXZQ07TAVJU				0.3	15	0.05	0.2
FXZQ09TAVJU				0.3	15	0.05	0.2
FXZQ12TAVJU				0.4	15	0.05	0.3
FXZQ15TAVJU				0.4	15	0.05	0.3
FXZQ18TAVJU				0.6	15	0.05	0.5

MCA: Min. Circuit Amps (A)
MOP: Max. Overcurrent Protection (A)
KW: Fan Motor Rated Output (kW)
FLA: Full Load Amps (A)

NOTE
For details, refer to “Electric characteristics” in Engineering Data Book.

Specifications for field supplied fuses and wiring

Power supply wiring		Remote controller wiring Transmission wiring	
MOP	Size	Wiring	Size
15A	Wiring size and length must comply with local codes.	2-conductor, stranded non-shielded copper cable PVC/vinyl jacket (NOTE 2)	AWG 18-16 (0.75-1.25 mm²)

The lengths of remote controller wiring and transmission wiring are as follows:

(1) Remote controller wiring (indoor unit - remote controller) ……Max. 1,640 ft. (500 m)

(2) Transmission wiring ……Total wiring length 6,560 ft. (2,000 m)
- Outdoor unit - Indoor unit…… Max. 3,280 ft. (1,000 m)
- Indoor unit - remote controller……Max. 1,640 ft. (500 m)

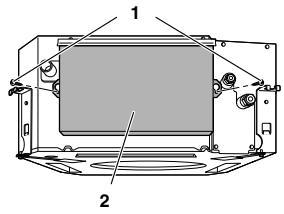
NOTE
1 For details,refer to “Wiring example” on page 8.
2 Vinyl cord with sheath or cable. (Insulated thickness : 1/16 in. (1 mm) or more.)

Wiring example and how to set the remote controller

Connection of power supply, transmission and remote controller wiring

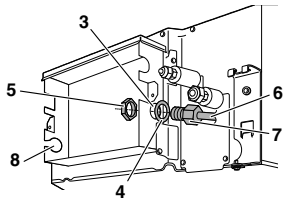
How to connect wiring (See figure 9)

(1) Remove the control box lid (2 screws).



1 Screws
2 Control box lid

(2) Insert the power supply and ground wires into the conduit pipe, and secure the conduit to the hole in the control box using the lock nut and the washer for conduit, as shown below.



3 Hole in the control box
4 Washer for conduit (supplied with the unit)
5 Lock nut (field supply)
6 Conduit pipe (field supply)
7 Conduit (field supply)
8 Opening for transmission wiring

(3) Connect the power supply and ground wires to the terminal block for power supply.

(4) In doing this, pull the wires inside through the conduit pipe and fix them securely with the supplied clamp.

(5) Give enough slack to the wires between the clamp and terminal block for power supply.

(6) Pull the transmission and remote controller wires inside through the opening for transmission wiring and connect them to the terminal block for transmission wiring (no polarity). Securely fix the wires with the supplied clamp.

(7) Give enough slack to the wires between the clamp and the terminal block for transmission wiring.

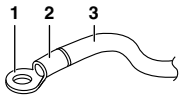
(8) Attach the control box lid as before.

(9) After all the wiring connections are done, fill in any gaps in the wiring openings with putty or sealing pad (small) thus to prevent small animals or dirt from entering the unit from outside and causing short circuits in the control box.

Precautions

1 Observe the notes mentioned below when wiring to the power supply terminal block.

- Use a round crimp-style terminal for insulation sleeve for connection to the terminal block for wiring the units. When none are available, follow the instructions below.



1 Round crimp-style terminal
2 Attach insulation sleeve
3 Wiring

- Do not connect wires of different gauge to the same power supply terminal. (Looseness in the connection may cause overheating.)
- When clamping wiring, use the clamps (delivered with the unit) to prevent outside pressure being exerted on the wiring connections. Tie up firmly. When doing the wiring, make sure the wiring is neat and does not cause the control box to stick up. Close the cover firmly.
- When connecting wires of the same gauge, connect them according to the figure.

Use the specified electric wire. Connect the wire securely to the terminal. Lock the wire down without applying excessive force to the terminal. Use torques according to the table below.

Unit: ft·lbf (N·m)

Tightening torque (N·m)	
Terminal block for unit transmission and remote controller	0.58-0.72 (0.79~0.97)
Terminal block for power supply	0.87-1.06 (1.18~1.44)

- When attaching the control box lid, make sure not to pinch any wires.

2 Do not connect wires of different gauge to the same grounding terminal. Looseness in the connection may deteriorate the protection.

3 Remote controller wiring and transmission wiring should be located at least 1-15/16 in. (50 mm) away from power supply wiring. Not following this guideline may result in malfunction due to electrical noise.

4 For the remote controller wiring, refer to the "Installation manual of the remote controller" supplied with the remote controller.

NOTE The customer has the ability to select the remote controller thermistor.

5 Never connect the power supply wiring to the terminal block for transmission wiring. This mistake could damage the entire system.

6 Use only specified wires and tightly connect wires to the terminals. Be careful that wires do not place external stress on the terminals. Keep wiring in neat order so that they do not obstruct other equipment such as popping open the service cover. Make sure the cover closes tight. Incomplete connections could result in overheating, and in the worst case, electric shock or fire.

Wiring example

Fit the power supply wiring of each unit with a switch and fuse as shown in figure 16.

1 Power supply
2 Main switch
3 Power supply wiring
4 Transmission wiring
5 Switch
6 Fuse/Breaker
7 BS unit (Heat recovery system only)
8 Indoor unit
9 Remote controller

Complete system example (3 systems)

See figures 12, 13 and 14.

1 Outdoor unit
2 Indoor unit
3 Remote controller (Optional accessory)
4 Most downstream indoor unit
5 For use with 2 remote controllers
6 BS unit (Heat recovery system only)

When using 1 remote controller for 1 indoor unit. (Normal operation) (See figure 12)**.**

For group control or use with 2 remote controllers (See figure 13)**.**

When including BS unit (See figure 14)**.**

NOTE It is not necessary to designate indoor unit address when using group control. The address is automatically set when the power is activated.

Precautions

1 A single switch can be used to supply power to units on the same system. However, branch switches and branch circuit breakers must be selected carefully.

2 For a group control remote controller, choose the remote controller that suits the indoor unit which has the most functions.

3 Do not connect the ground wire to gas or water pipes, lightning rods or telephone ground wires.

Installation of the decoration panel

Refer to the installation manual delivered with the decoration panel.

After installing the decoration panel, ensure that there is no space between the unit body and decoration panel. Otherwise air may leak through the gap and cause condensation.

Field setting

Field setting must be made from the remote controller in accordance with the installation condition.

- Setting can be made by changing the "Mode number", "First code No." and "Second code No.".
- For setting and operation, refer to the "Field setting" in the installation manual of the remote controller.

Summary of field settings

Mode No. (Note 1)	First code No.	Description of setting		Second code No. (Note 2) 01	02	03	04
10 (20)	0	Filter contamination - Heavy/Light = Setting to define time between 2 filter cleaning display indications. (When contamination is high, setting can be changed to half the time in-between 2 filter cleaning display indications.)	Long Life Filter	Light ±2,500 hrs.	Heavy ±1,250 hrs.	—	—
	2	Thermostat sensor selection		Use both the unit sensor (or remote sensor if installed) AND the remote controller sensor. (See note 4+5)	Use unit sensor only (or remote sensor if installed). (See note 4+5)	Use remote controller sensor only. (See note 4+5)	—
	3	"Time to clean filter" displayed or not displayed		Display	Do not display	—	—
	5	Information to I-manager, I-touch controller		Only unit sensor value (or remote sensor value if installed).	Sensor value as set by 10-2-0X or 10-6-0X.	—	—
	6	Thermostat sensor in group control		Use unit sensor only (or remote sensor if installed). (See note 5)	Use both the unit sensor (or remote sensor if installed) AND the remote controller sensor. (See note 3+4+5)	—	—
12 (22)	0	Output signal X1-X2 of the optional KRP1B PCB kit		Thermostat-on + compressor run	—	Operation	Malfunction
	1	ON/OFF input from outside (T1/T2 input) = Setting when forced ON/OFF is to be operated from outside.		Forced OFF	ON/OFF operation	—	—
	2	Thermostat differential changeover = Setting when remote sensor is used.		1.8°F (1°C)	0.9°F (0.5°C)	—	—
	3	Fan setting during thermostat OFF at heating operation		LL	Set speed	—	—
	4	Differential automatic changeover		0°F (0°C)	1.8°F (1°C)	3.6°F (2°C)	5.4°F (3°C) (See note 6)
	5	Auto-restart after power failure		Disabled	Enabled	—	—
	6	Fan setting during thermostat OFF at cooling operation		LL	Set speed	—	—
13 (23)	0	Setting for air outlet velocity This setting is to be changed in function of ceiling height.		≤8 to 3/4 ft. (2.7 m or less)	8-3/4 to 10 (2.7-3.0)	10 to 11-1/2 (3.0-3.5)	—
	1	Selection for air flow direction This setting is to be changed when blocking pad optional kit is used.		4-way flow	3-way flow	2-way flow	—
	4	Airflow direction range setting This setting is to be changed when range of horizontal blade movement needs to be changed.		Upper	Medium	Lower	—

Note 1: Setting is carried out in the group mode, however, if the mode number inside parentheses is selected, indoor units can also be set individually.

Note 2: Factory settings of the Second code No. are marked in grey background.

Note 3: If group control is selected and remote controller sensor is to be used, then set 10-6-02 & 10-2-03.

Note 4: If setting 10-6-02 + 10-2-01 or 10-2-02 or 10-2-03 are set at the same time, then setting 10-2-01, 10-2-02 or 10-2-03 have priority.

Note 5: If setting 10-6-01 + 10-2-01 or 10-2-02 or 10-2-03 are set at the same time, then setting for group connection, 10-6-01 has priority and for individual connection, 10-2-01, 10-2-02 or 10-2-03 have priority.

Note 6: More settings for Differential automatic change over temperatures are:

Second code No. **05 7.2°F (4°C)**
06 9.0°F (5°C)
07 10.8°F (6°C)
08 12.6°F (7°C)

■ When using wireless remote controllers it is necessary to use address setting. Refer to the installation manual attached to the wireless remote controller for the setting instructions.

For Control with 2 Remote Controllers (To control 1 indoor unit with 2 remote controllers)

- For control with 2 remote controllers, set one remote controller as Main and the other remote controller as Sub.

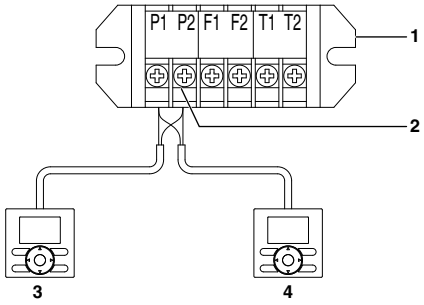
Changeover method from Main to Sub and vice versa

Refer to the installation manual attached to the remote controller.

Wiring method

1 Remove the control box lid.

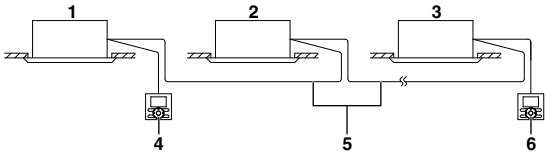
2 Carry out additional wiring from the remote controller 2 (Sub) to the terminals (P1, P2) for remote controller wiring on the terminal block (X1M) in the control box.



1 Terminal block for transmission wiring
2 Terminal for remote controller wiring (P1, P2)
No polarity
3 Remote controller 1 (Main)
4 Remote controller 2 (Sub)

Caution

- When using the group control and the 2 remote controllers control at the same time, connect the remote controller 2 (Sub) to the indoor unit at the end of the crossover wiring (the largest No.).



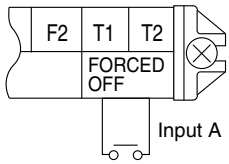
1 Indoor unit 1
2 Indoor unit 2
3 Indoor unit largest No.
4 Remote controller 1 (Main)
5 Crossover wiring (Remote controller)
6 Remote controller 2 (Sub)

For centralized control

- When centralized equipment (such as centralized controller) is used for control, it is required to set the group No. on the remote controller.
  For details, refer to the manuals attached to the centralized equipment.
- Connect the centralized equipment to the indoor unit connected to the remote controller.

For remote control (force off or on / off operation)

1 Wiring method and specification
- Remote control is available by connecting the external input to the terminal T1 and T2 on the terminal block for transmission wiring.



Wiring specification	Sheathed vinyl cord or 2 core cable
Gauge	AWG18-16 (0.75 – 1.25 mm^2)
Wiring length	Max. 328 ft. (100 m)
External contact spec	Contact that can make and break the min. load of 15 V DC , 1 mA

2 Actuation
- Input A of FORCED OFF and ON/OFF OPERATION will be as the table shown below.

	Input A = ON	Input A = OFF
In case of FORCED OFF	Remote controller prohibited	Remote controller permitted
In case of ON/OFF OPERATION	Operation	Stop

3 How to choose FORCED OFF or ON/OFF OPERATION
- For choosing FORCED OFF or ON/OFF OPERATION, setting by remote controller is required.
  [1] Enter into the field setting mode with the remote controller.
  [2] Select MODE NO. 12.
  [3] Set the FIRST CODE NO. to 1.
  [4-1] For FORCED OFF, set the SECOND CODE NO. to 01.
  [4-2] For ON/OFF OPERATION, set the SECOND CODE NO. to 02.
  (It is set to FORCED OFF when shipped from the factory.)

Test operation

Refer to the installation manual of the outdoor unit.

NOTE When performing field settings or test operation without attaching the decoration panel, do not touch the drain pump. This may cause electric shock.

The operation lamp of the remote controller will flash when an error occurs. Check the error code on the liquid crystal display to identify the trouble. Refer to the installation manual attached to the outdoor unit or contact your dealer. See figure 22.

1 Drain pumping device (built-in) drain water is removed from the room during cooling
2 Horizontal blade (at air outlet)
3 Air outlet
4 Remote controller
5 Suction grille
6 Air filter (inside suction grille)

2. Installation Notes for Wireless Remote Controller, Sensor Kit and Decoration Panel (BYFQ60B3W1)

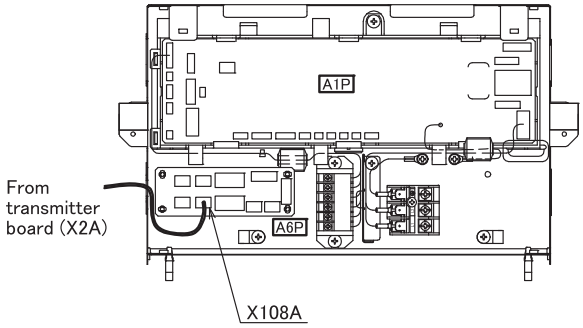
FXZQ05TAVJU / FXZQ07TAVJU / FXZQ09TAVJU / FXZQ12TAVJU / FXZQ15TAVJU / FXZQ18TAVJU

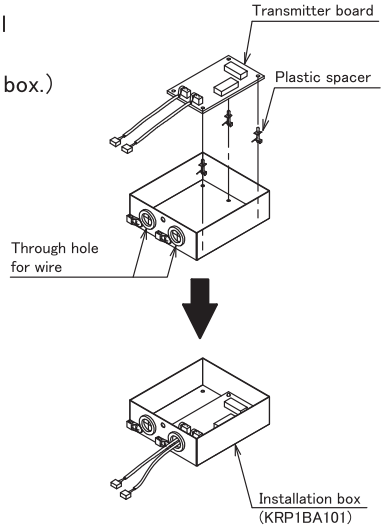
INSTALLATION NOTES FOR WIRELESS REMOTE CONTROLLER, SENSOR KIT AND DECORATION PANEL (BYFQ60B3W1)

IN CASE OF INSTALLING THE FOLLOWING OPTIONAL ACCESSORIES,
PLEASE NOTE THAT THE CONNECTOR NUMBER FOR CONNECTION IS DIFFERENT
FROM THE ONE INDICATED IN THE INSTALLATION MANUAL ATTACHED TO THEM.

FOR WIRELESS REMOTE CONTROLLER KIT

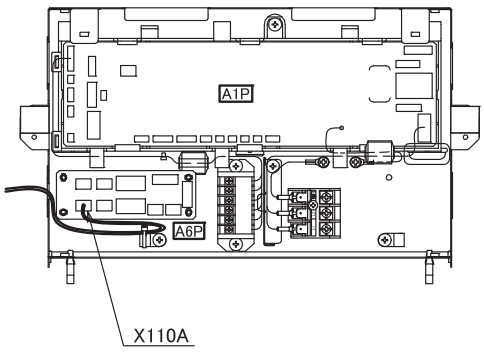
- The optional installation box KRP1BA101 is required to install Wireless Remote Controller Kits.
  (Refer to the installation manual attached to the installation box.)
- Connect the connector of Wireless Remote Controllers to X108A port on the PC-board A6P.





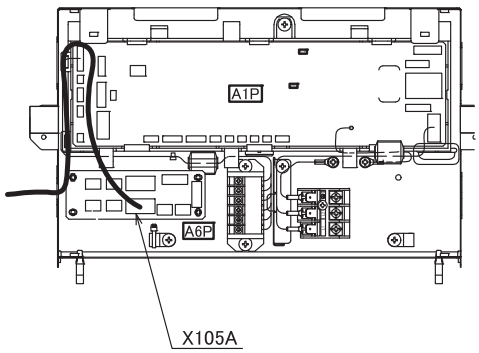
FOR SENSOR KIT

- Connect the connector of Sensor Kit to X110A port on the PC-board A6P.



FOR DECORATION PANEL (BYFQ60B3W1)

- Connect the connector of Decoration Panel to X105A port on the PC-board A6P.



3P497031-1

3P497031-1

Appendix 2 Installation of Decoration Panel BYFQ60C3W1W / BYFQ60C3W1S

1. Installation Manual

BYFQ60C3W1W / BYFQ60C3W1S

DAIKIN

BYFQ60C3W1W
BYFQ60C3W1S

Decoration panel

Installation manual

The English text is the original instruction. Other languages are translations of the original instructions.

Read this manual attentively before installation. Do not throw it away. Keep it in your files for future reference.

Improper installation or attachment of equipment or accessories could result in electric shock, short-circuit, leaks, fire or other damage to the equipment. Be sure only to use accessories made by Daikin that are specifically designed for the use with the equipment and have them installed by a professional.

If unsure of installation procedures or use, always contact your dealer for advice and information.

Before installation

- Leave the unit inside its packaging until you reach the installation site.

Rotary fan

Cut off the main power supply before opening the grille.

- Refer to the installation manual of the indoor unit for items not described in this manual.

NOTE **To the installer**

Be sure to instruct the customer how to properly operate the system showing him or her the operation manual of the indoor unit.

Accessories

Installation manual	
Screws (4x)	
Suction grille hinge (2x)	

Preparation before installation

For this unit, you are able to select airflow directions. To discharge air in 2 or 3 directions, it is necessary to purchase the optional blocking pad kit for sealing air discharge outlets.

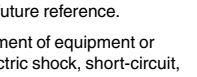
Handling of the decoration panel

To prevent any damage to the decoration panel, take care of the following:

- Never place the decoration panel facing down.
- Never let the decoration panel lean against a wall.
- Never place the decoration panel on a sharp or projecting object.
- Never touch or put pressure on the swing flap in order to prevent malfunction of the swing flap.

Preparing the decoration panel for installation

1 Remove the suction grille from the decoration panel.



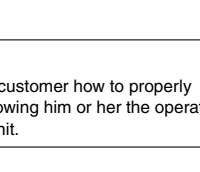
1 Decoration panel
2 Suction grille
3 Lever

- Remove the transporting tape from the decoration panel suction grille and flaps.
- Push the suction grille tabs (3) inward and open the suction grille (2). (See figure 1)
- Detach the suction grille from the decoration panel by lifting the suction grille up approximately 90 degrees (A) until the position is reached on which removal of the suction grille is possible (B). (See figure 2)

Installation of the decoration panel to the indoor unit

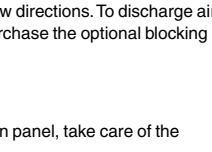
Refer to the installation manual of the indoor unit for details on installing the indoor unit.

1 Install the decoration panel (See figure 3)



1 Temporary latch
2 Hook
3 Swing flap motor lead wire
4 Piping area
5 Piping side mark
6 Drain area
7 Drain side mark

1 Hold the decoration panel against the indoor unit by matching the piping side and drain side marks on the decoration panel with the position of the piping area and drain area of the indoor unit.
2 Turn 2 panel temporary latches up into the hooks of the indoor unit so the decoration panel is temporarily fixed to the indoor unit. (See figure 3)
3 Make sure that the swing flap motor lead wire isn't caught between the decoration panel and the indoor unit.
4 Attach 4 supplied screws and check whether the decoration panel is properly aligned with the indoor unit and ceiling.
5 Tighten all 4 screws until the thickness between of the sealing material between the decoration panel and the indoor unit reduces to 0.16-0.31 in. (4-8 mm). (See figure 4)



1 Indoor unit
2 Ceiling
3 Sealing material
4 Decoration panel
5 Air outlet

English 1

3P493125-2

Precautions

- Improper tightening of the screws - (See figure 5) - may cause air to leak into the unit and between the ceiling and the decoration panel (1), resulting in formation of contamination (2) and dew (3).
- If there is a gap remaining between the ceiling and the decoration panel after tightening the screws, re-adjust the indoor unit body height. The indoor unit must be kept leveled and the drain piping kept unaffected.

2 Wiring of the decoration panel (See figure 6)

Make sure to turn off the power supply before wiring!

1 Screws (2)
2 Control box
3 Swing flap motor lead wire
4 Swing flap motor lead wire fixed by tie wrap to the rest of the wires (See detail in figure 6)
5 Connector of the indoor unit PCB (X105A)
6 Tie wrap

1 Remove the control box lid. Loosen 2 screws and slide the control box lid in the direction of the arrows.
2 Securely connect the connector of swing flap motor lead wire installed on the decoration panel. Attach the swing flap motor lead wire to the rest of the wires firmly by tie wrap (from indoor unit accessory set). (See figure 6)
3 Replace the control box lid reversing the procedure to remove it.

Make sure that the swing flap motor lead wire is not caught between the indoor unit and the decoration panel and in between the control box lid.

Installation of the suction grille to decoration panel

Install the suction grille (See figure 7)

1 Decoration panel
2 Suction grille
3 Suction grille hinge (attached to decoration panel)

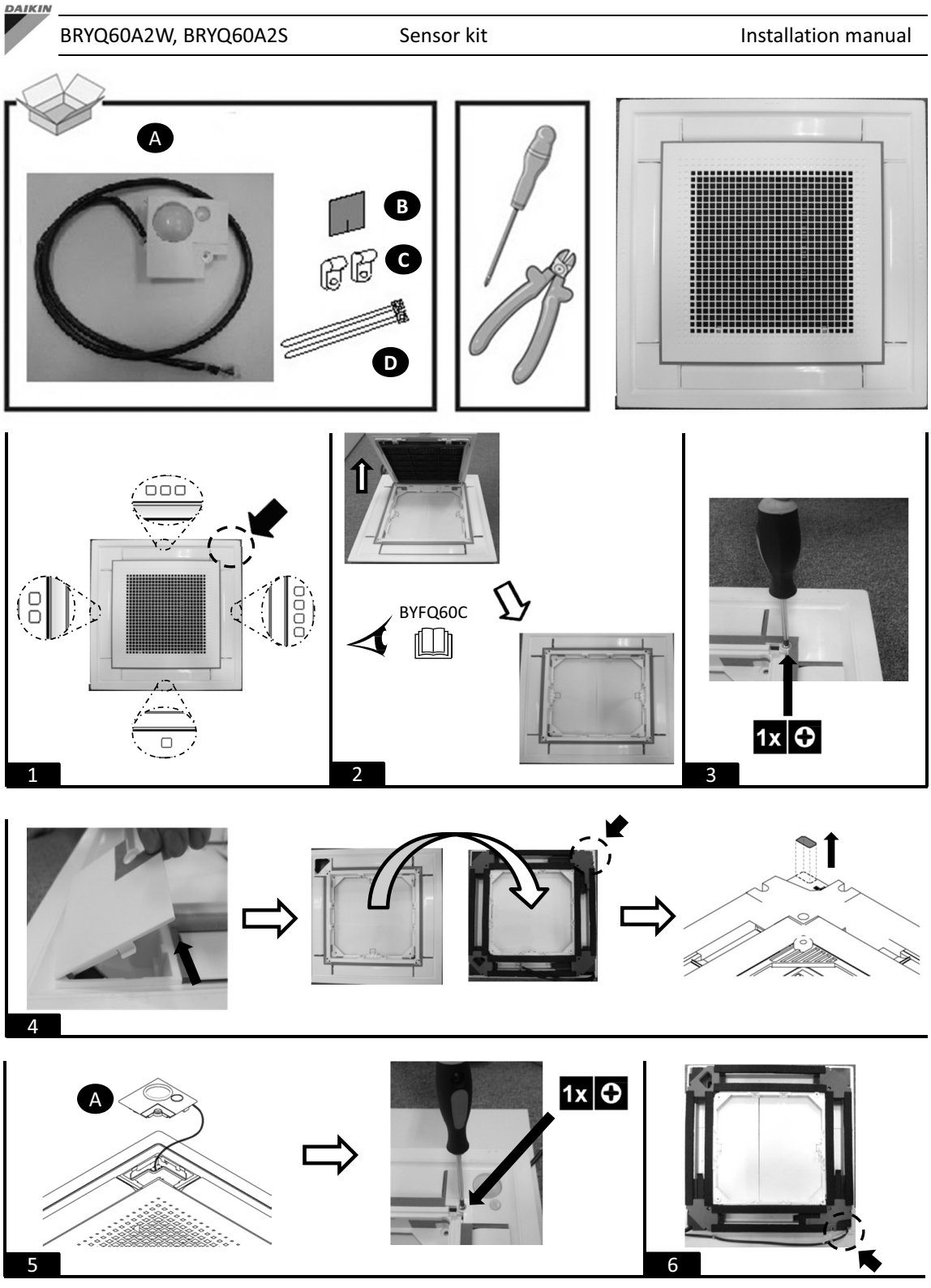
1 Remove the transportation tape which is securing 2 suction grille hinges in place.
2 Attach the suction grille to hinges by pressing the hinge and inserting both ends of hinge to holes on the suction grille. (See figure 7)
3 Make sure that the suction grille is attached to the decoration panel properly by 2 hinges.
4 Close the suction grille by reversing the procedure shown in “Preparing the decoration panel for installation” on page 1.

- The suction grille may be installed in 4 directions by simply turning it 90 degrees.
- Change the direction when adjusting the direction of the suction grille of multiple units or to comply with the demands of the customer.

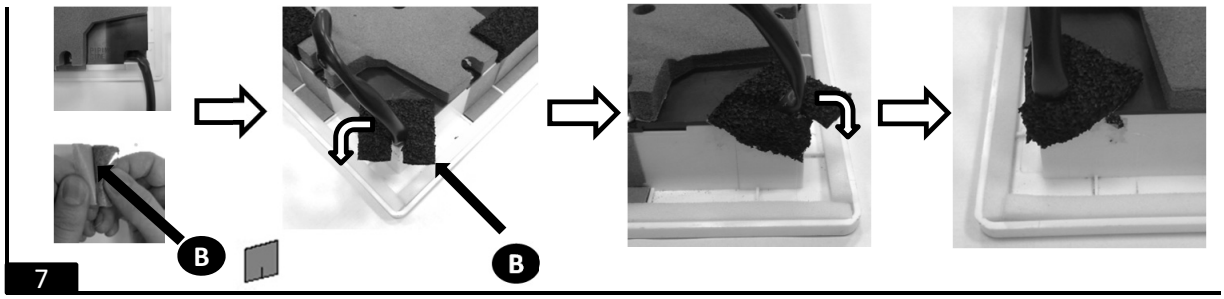
Appendix 3 Installation of Sensor Kit BRYQ60A2W / BRYQ60A2S

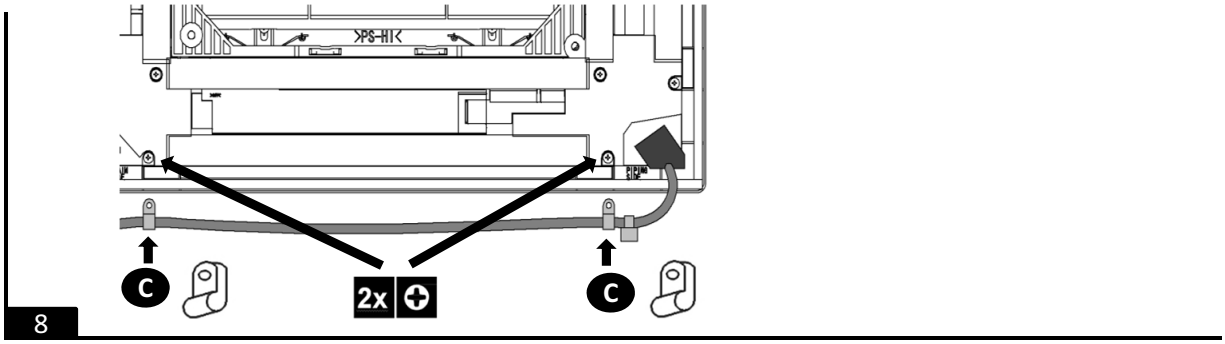
1. Installation Manual

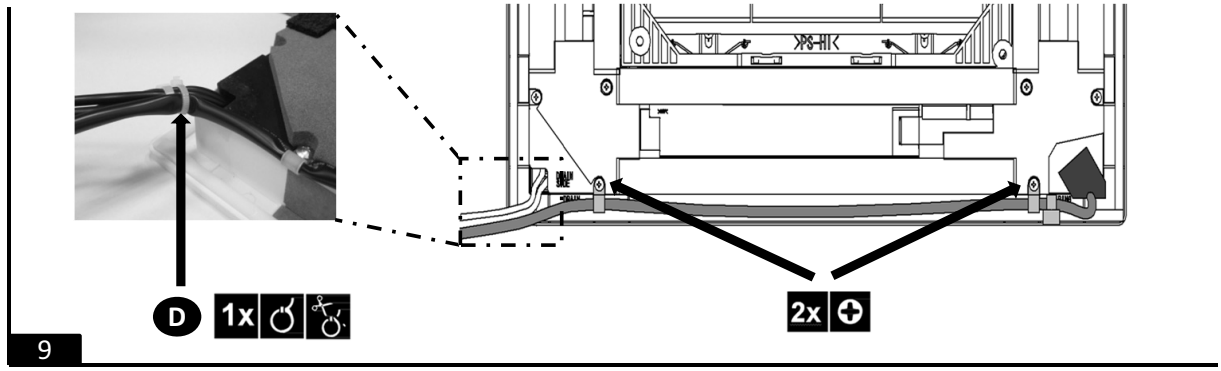
BRYQ60A2W / BRYQ60A2S

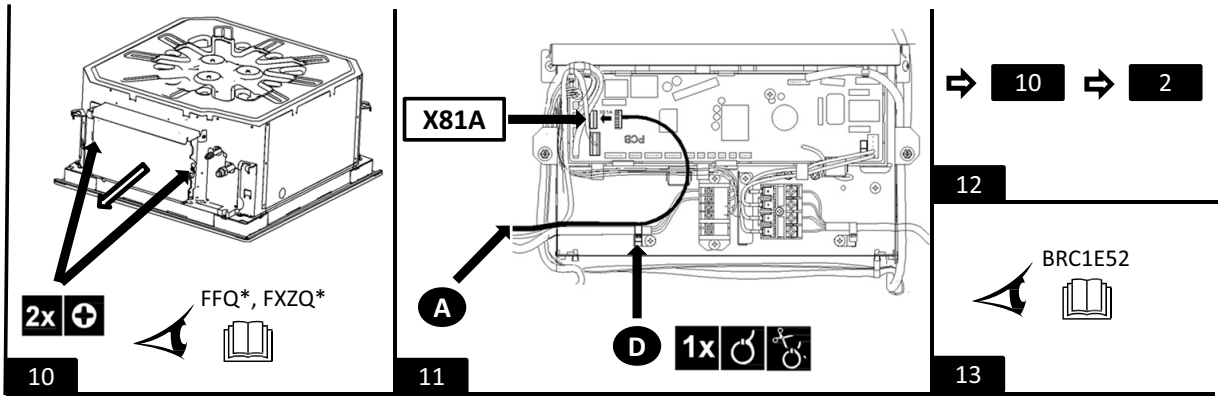


4P343368-1A









4P343368-1A 2013.04

4P343368-1A

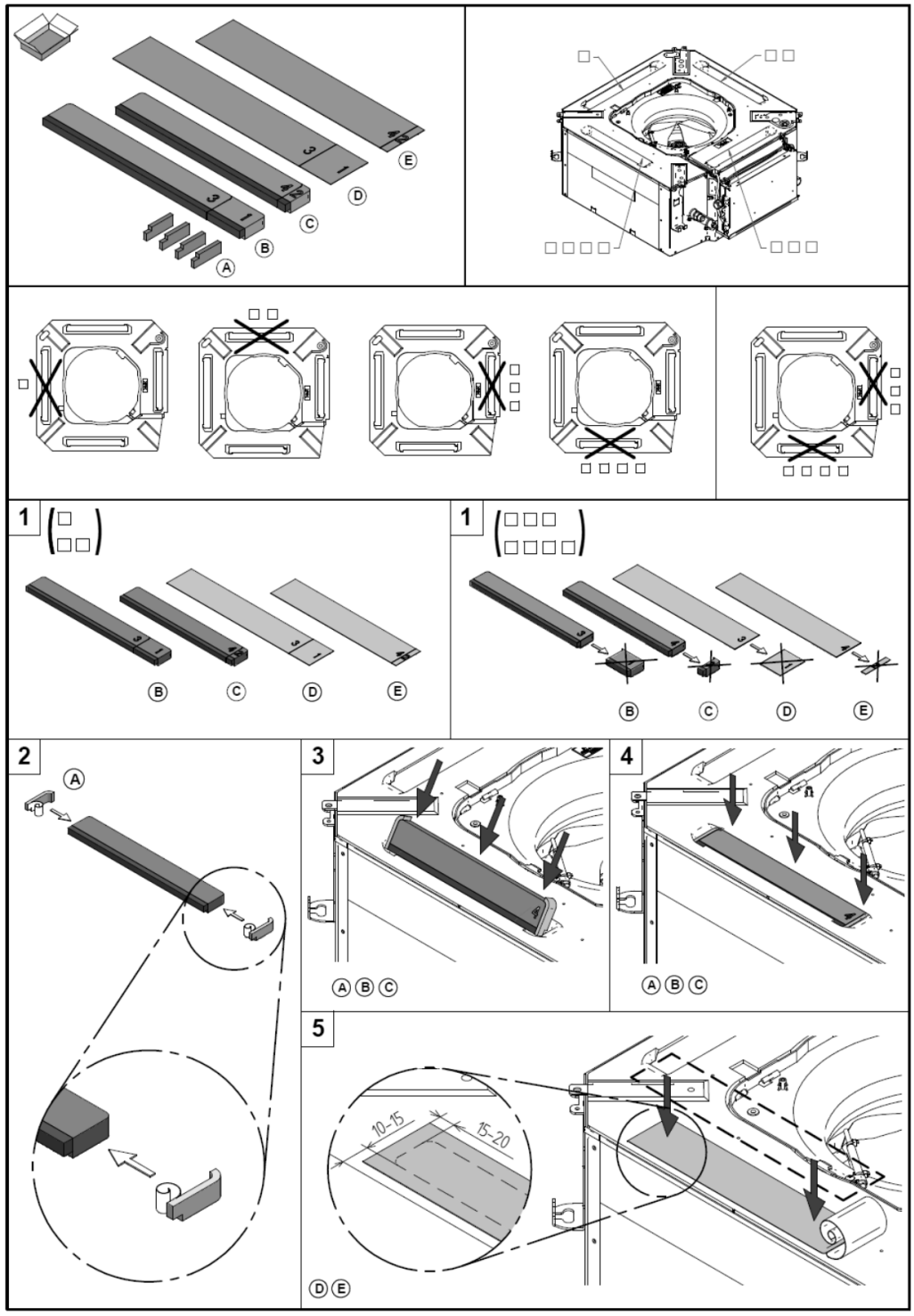
Appendix 4 Installation of Sealing member of air discharge outlet BDBHQ44C60

1. Installation Manual

BDBHQ44C60

DAIKIN

BDBHQ44C60 Sealing member of air discharge outlet Installation manual



4P343356-1A

- The 3 different kinds of setting such as "Mode number", "First code number" and "Second code number" must be made by the remote controller.

- The setting and operation procedure are written in the installation manual provided with the remote controller.

- Do not perform settings that are not listed in the table.

Setting according to number of air outlets used
Set the "Second code number". It is shown in the table below depending on the number of air outlet used.

Setting	Mode number (Note)	First code number	Second code number
4-way flow	13(23)	1	01
3-way flow			02
2-way flow			03

4P343356-1A 2013.04

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.

• Specifications, designs and other content appearing in this brochure are current as of March 2018 but subject to change without notice.