



technical data

CDX-J



**Concealed Ceiling,
Inverter Controlled Unit**

air conditioning systems

Split Sky Air

Split - Sky Air



ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment



Daikin units comply with the European regulations that guarantee the safety of the product.



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



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Specifications are subject to change without prior notice

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For capacity tables, please refer to part II: outdoor units

Note: R-22 cooling only models, which are produced after 01/07/2002, cannot be sold inside countries that follow the European Regulation n°2037/2000 EE of 29/09/2000.

1 Features



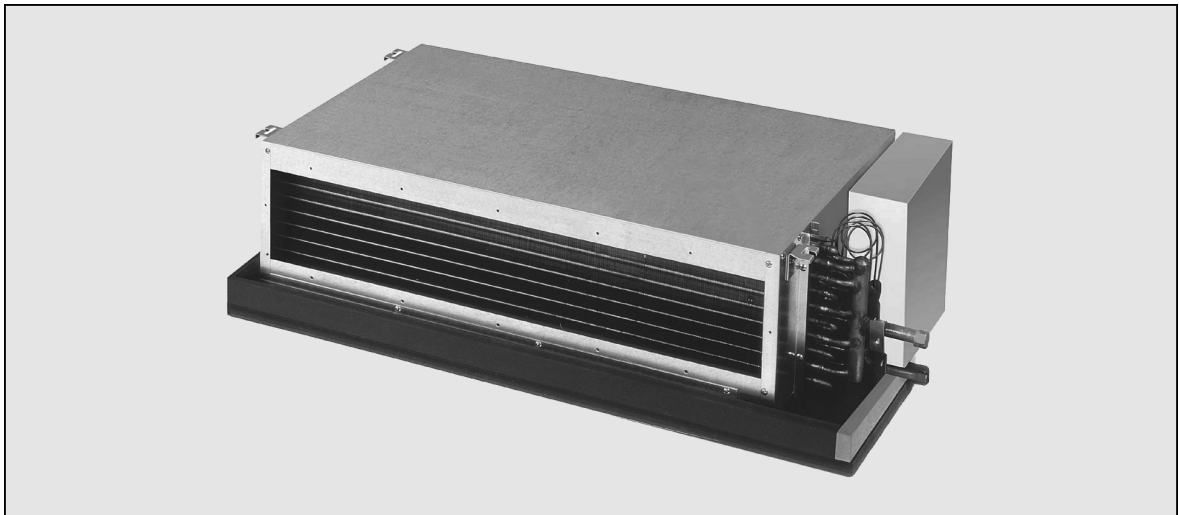
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- Lightweight and compact
- Blends unobtrusively with any interior decor: only the suction and discharge grilles are visible
- Leaves maximum floor and wall space for furniture, decoration and fittings
- Fits flush into each ceiling
- Extremely quiet in operation both indoors and outdoors

Inverter control

- Maximum comfort and efficiency
- Start-up time reduced by one third
- Detects changes in room or outdoor conditions and adjusts the indoor temperature to compensate within seconds. Rapid response reduces power consumption by 30%

- Up to 7 indoor units can be connected to 1 Multi outdoor unit. All indoor units are individually controllable with remote control and do not need to be installed in the same room. They operate simultaneously within the same cooling or heating mode.
- The remote control has a 24 hour timer
- Up to 5 indoor units can be operated from a single centralised control
- This indoor model can also be started / stopped by the signal receiver of the remote control, mounted near the unit



2 Specifications



NOMINAL CAPACITY and NOMINAL INPUT						
For indoor units only:						
INDOOR UNITS			CDX25JV1NB	CDX35JV1NB	CDX50JV1NB	CDX60JV1NB
NOMINAL INPUT	Cooling	kW	-	-	-	-
	Heating	kW	-	-	-	-

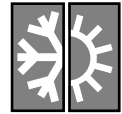
For combination indoor units + outdoor units:						
INDOOR UNITS			CDX25JV1NB	CDX35JV1NB	CDX25JV1NB	CDX35JV1NB
OUTDOOR UNITS			4MX80HV1NB	4MX80HV1NB	4MX80HV1NB	4MX80HV1NB
NOMINAL CAPACITY (3)	Cooling (1)	kW	For capacities and power input in multi model application, see chapter MX-H		For capacities and power input in multi model application, see chapter MX-H	
	Heating (2)	kW	For capacities and power input in multi model application, see chapter MX-H		For capacities and power input in multi model application, see chapter MX-H	
NOMINAL INPUT	Cooling	kW	For capacities and power input in multi model application, see chapter MX-H		For capacities and power input in multi model application, see chapter MX-H	
	Heating	kW	For capacities and power input in multi model application, see chapter MX-H		For capacities and power input in multi model application, see chapter MX-H	
INDOOR UNITS			CDX25JV1NB	CDX35JV1NB	CDX50JV1NB	CDX60JV1NB
OUTDOOR UNITS			4MX80HV1NB	4MX80HV1NB	4MX80HV1NB	4MX80HV1NB
NOMINAL CAPACITY (3)	Cooling (1)	kW	For capacities and power input in multi model application, see chapter MX-H			
	Heating (2)	kW	For capacities and power input in multi model application, see chapter MX-H			
NOMINAL INPUT	Cooling	kW	For capacities and power input in multi model application, see chapter MX-H			
	Heating	kW	For capacities and power input in multi model application, see chapter MX-H			

TECHNICAL SPECIFICATIONS							
INDOOR UNITS			CDX25JV1NB	CDX35JV1NB	CDX50JV1NB	CDX60JV1NB	
DIMENSIONS	Unit	H	mm	260	260	260	260
		W	mm	900	900	900	900
		D	mm	580	580	580	580
WEIGHT	Unit		kg	23	23	24	24
SOUND LEVEL	Sound pressure (cooling/heating) (4)	high	dB(A)	39/40	39/40	42/42	44/44
		low	dB(A)	36/36	36/36	39/38	41/40
	Sound power (cooling/heating) (5)		dB(A)	55/56	55/56	58/58	60/60
FAN	Air flow rate (cooling/heating)	high	m ³ /min	13.0/13.0	13.0/13.0	13.0/13.0	14.5/14.5
		medium	m ³ /min	12.0/12.0	12.0/12.0	12.0/12.0	13.0/13.0
		low	m ³ /min	11.0/11.0	11.0/11.0	11.0/11.0	11.5/11.5
	Speed (cooling/heating)	steps		5 steps and auto			
		high	rpm	960/960	960/960	1,000/1,000	1,120/1,120
		low	rpm	830/830	830/830	860/860	910/910
Type		Sirocco fan					
Qty x motor output		W	1 x 47A-23	1 x 47A-23	1 x 47A-23	1 x 47A-23	
HEAT EXCHANGER	Type		φ 7 Hi-XA tube	φ 7 Hi-XA tube	φ 7 Hi-XA tube	φ 7 Hi-XA tube	
	Rows x stages x fin pitch	mm	2 x 10 x 1.75	2 x 10 x 1.75	3 x 10 x 1.75	3 x 10 x 1.75	
TEMPERATURE CONTROL			Microcomputer control				
PIPING CONNECTIONS	liquid	mm	φ6.4	φ6.4	φ6.4	φ6.4	
	gas	mm	φ9.5	φ12.7	φ12.7	φ15.9	
	drain	mm	φ27.2(3/4B)	φ27.2(3/4B)	φ27.2(3/4B)	φ27.2(3/4B)	
INSULATION MATERIAL	Heat insulation tape		Both liquid and gas pipes				

For outdoor units	Multi model application	See chapter MX-H
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2 Specifications



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ELECTRICAL SPECIFICATIONS				CDX25JV1NB	CDX35JV1NB	CDX50JV1NB	CDX60JV1NB					
For indoor units only:												
CURRENT	Nominal running current	cooling	A	See chapter MX-H: Electrical data								
		heating	A									
	Max. running current	cooling	A									
		heating	A									
For combination indoor units + outdoor units:												
				CDX25JV1NB	CDX35JV1NB	CDX25JV1NB	CDX35JV1NB					
				2MX52HV1NB	2MX52HV1NB	3MX68HV1NB	3MX68HV1NB					
CURRENT	Nominal running current	cooling	A	See chapter MX-H: Electrical data								
		heating	A									
	Maximum running current	cooling	A									
		heating	A									
	Starting current	cooling	A									
		heating	A									
								CDX25JV1NB	CDX35JV1NB	CDX50JV1NB	CDX60JV1NB	
								4MX80HV1NB	4MX80HV1NB	4MX80HV1NB	4MX80HV1NB	
CURRENT	Nominal running current	cooling	A	See chapter MX-H: Electrical data								
		heating	A									
	Maximum running current	cooling	A									
		heating	A									
	Starting current	cooling	A									
		heating	A									
	For indoor units only:							CDX25JV1NB	CDX35JV1NB	CDX50JV1NB	CDX60JV1NB	
	POWER SUPPLY							V1	V1	V1	V1	
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~	1~	1~					
	Frequency		Hz	50	50	50	50					
	Voltage		V	230	230	230	230					

NOTES

- Nominal cooling capacities are based on: indoor temperature 27°CDB/19°CWB * outdoor temperature 35°CDB * refrigerant piping length: 7.5m
- Nominal heating capacities are based on: indoor temperature 20°CDB * outdoor temperature 7°CDB/6°CWB * refrigerant piping length 7.5m
- Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment. For measuring conditions: please refer to item 6 of this chapter.
- The sound power level is an absolute value indicating the "power" which a sound source generates.

3 Dimensional drawings



CDX-J unit (mm)

Infrared receiver unit

Infrared remote control

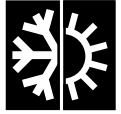
CDK: ARC423A12, ARC423A14
CDX: ARC423A11, ARC423A13

Model	B (gas pipe connection size)
CDX25	φ 9.5
CDX35	φ 12.7
CDX50	
CDX60	φ 15.9

view A
In case back-suction

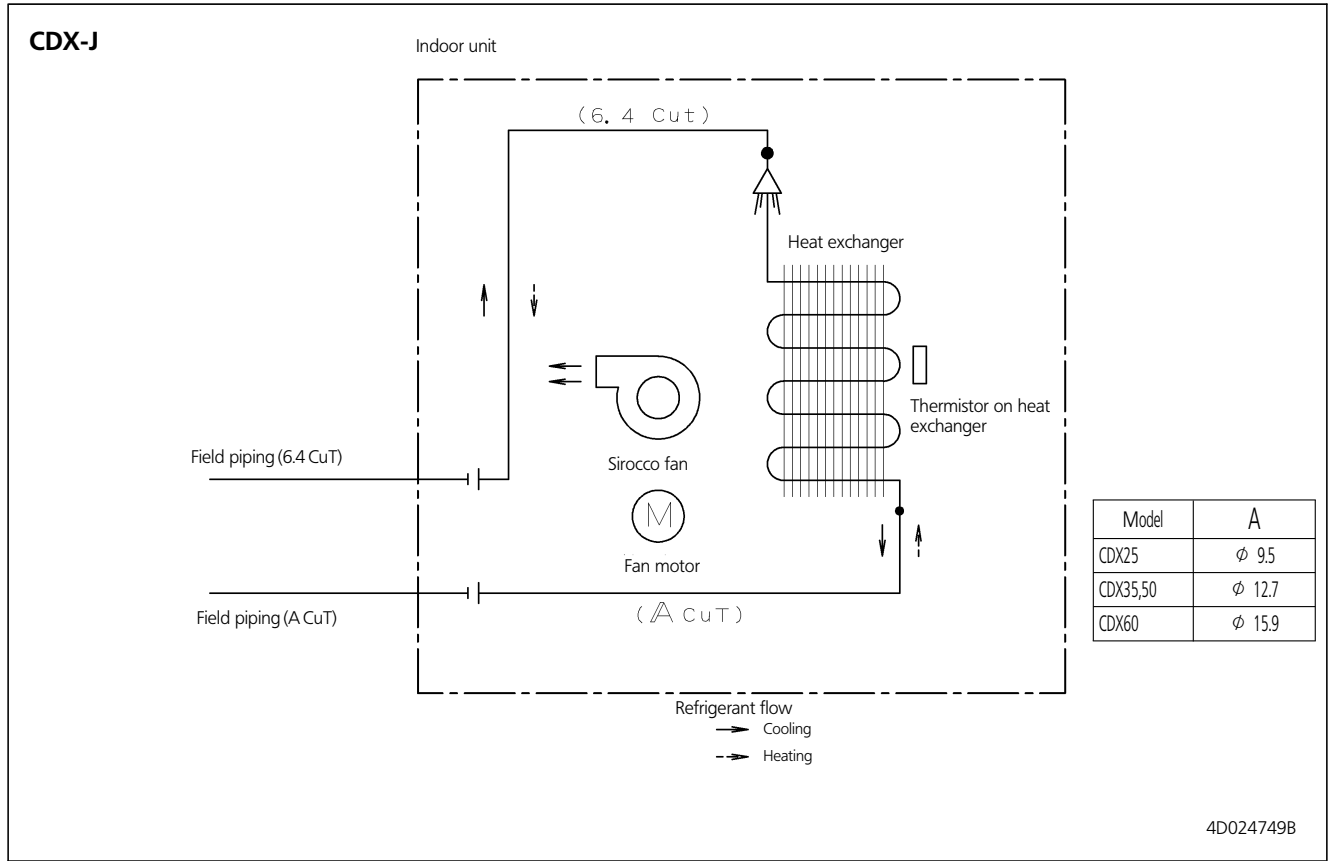
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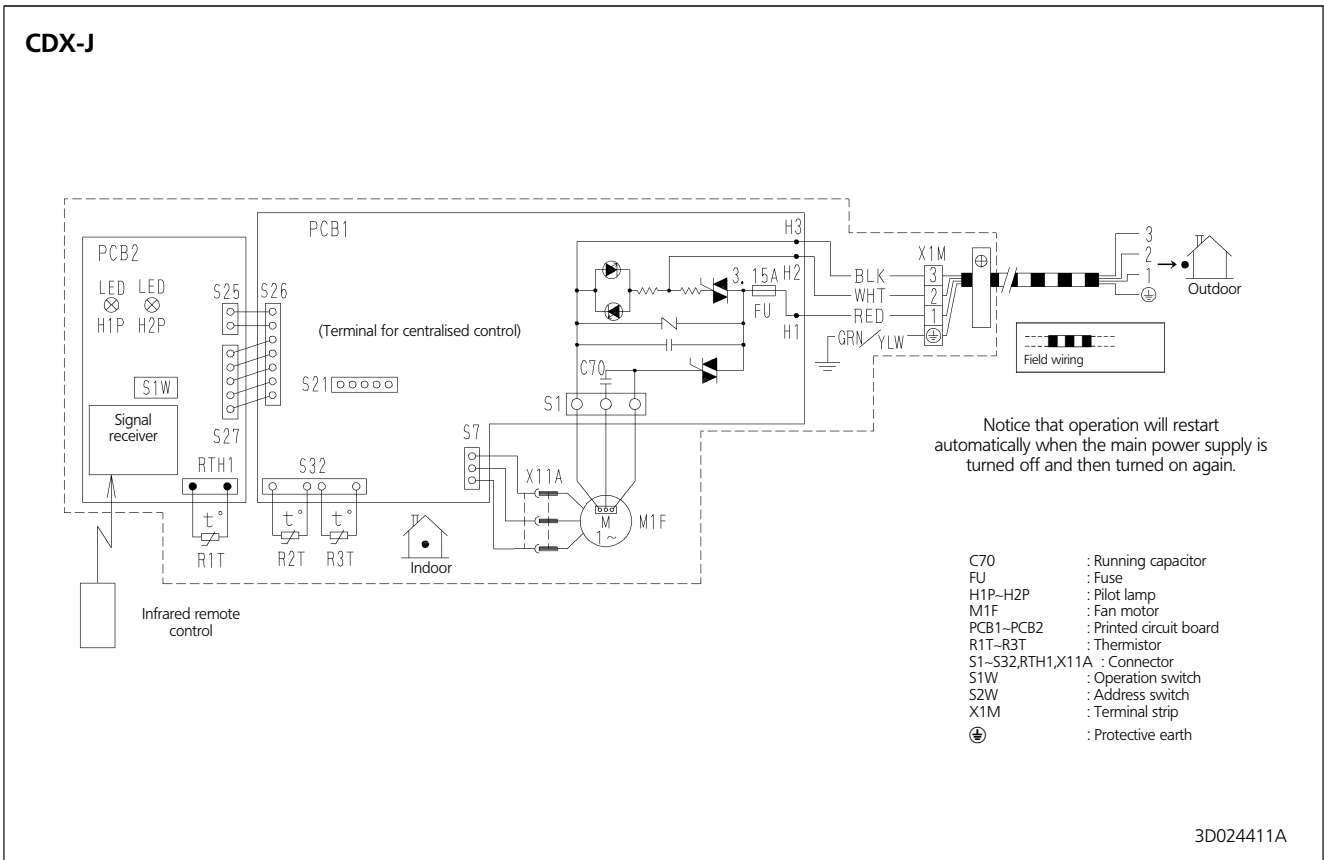


4 Piping diagrams

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5 Wiring diagrams



6 Sound level

6-1 Sound level data



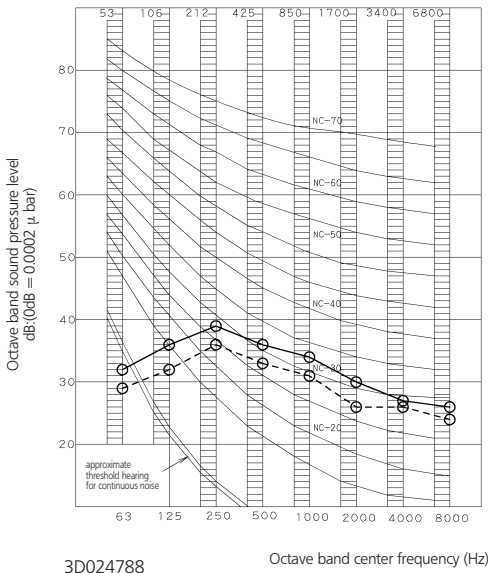
6 Heat pump

6-1

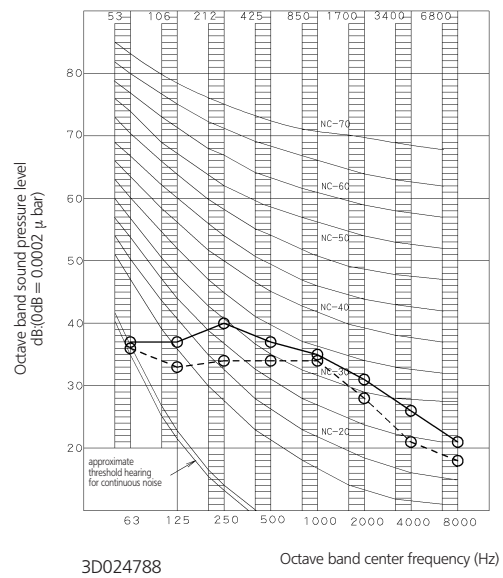
Model	Sound pressure level			Measuring location	Sound power level (H)
	230V				
	50Hz				
	H (cooling/heating)	M (cooling/heating)	L (cooling/heating)		
CDX25JV1NB	39/40	37/38	36/36		55 / 56
CDX35JV1NB	39/40	37/38	36/36		55 / 56
CDX50JV1NB	42/42	40/40	39/38		58 / 58
CDX60JV1NB	44/44	42/41	41/40		60 / 60

6-2 Sound pressure spectrum

CDX25-35JV1NB (Cooling)



CDX25-35JV1NB (Heating)



Legend

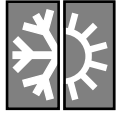
- 50Hz, 230V (H)
- -○ 50Hz, 230V (L)

Notes:

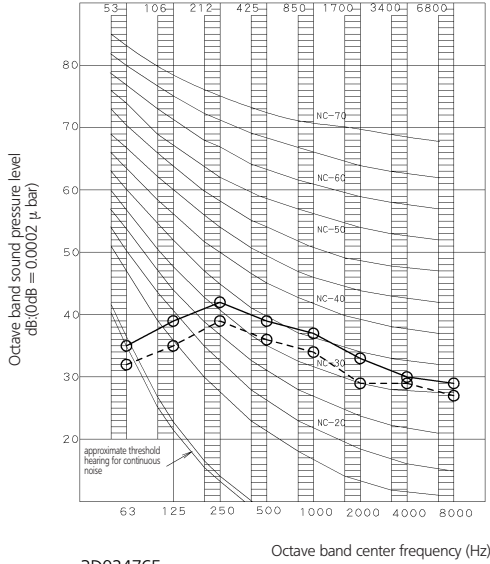
1. Operation sound is measured in an anechoic chamber.
2. Operation sound differs with operation and ambient conditions.

6 Sound level

6-2 Sound pressure spectrum

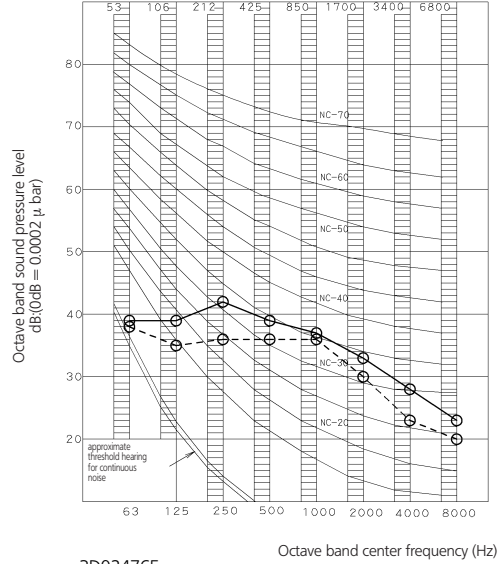


CDX50JV1NB (Cooling)



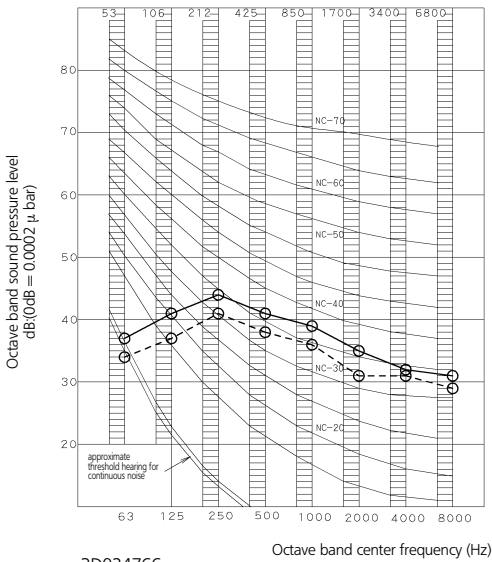
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CDX50JV1NB (Heating)



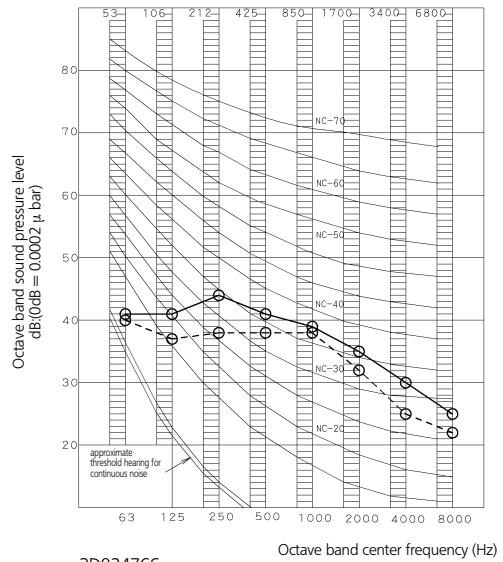
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CDX60JV1NB (Cooling)



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CDX60JV1NB (Heating)



3D024766

Legend

- 50Hz, 230V (H)
- - ○ 50Hz, 230V (L)

Notes:

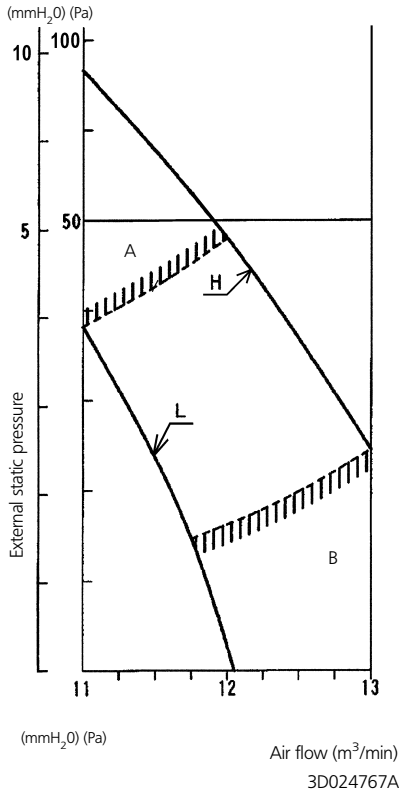
1. Operation sound is measured in an anechoic chamber.
2. Operation sound differs with operation and ambient conditions.

7 Fan characteristics

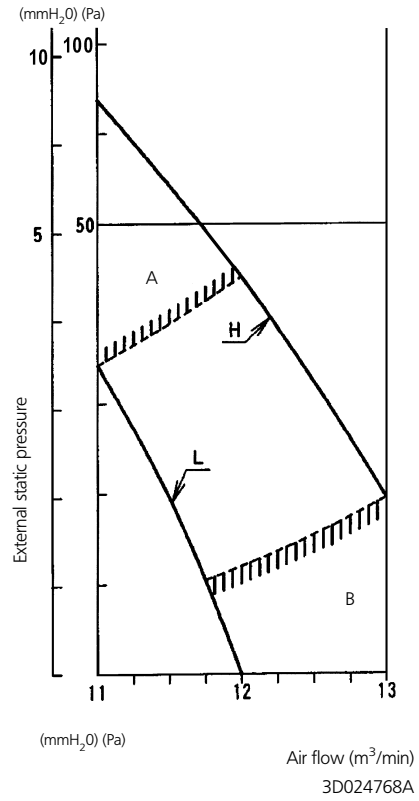


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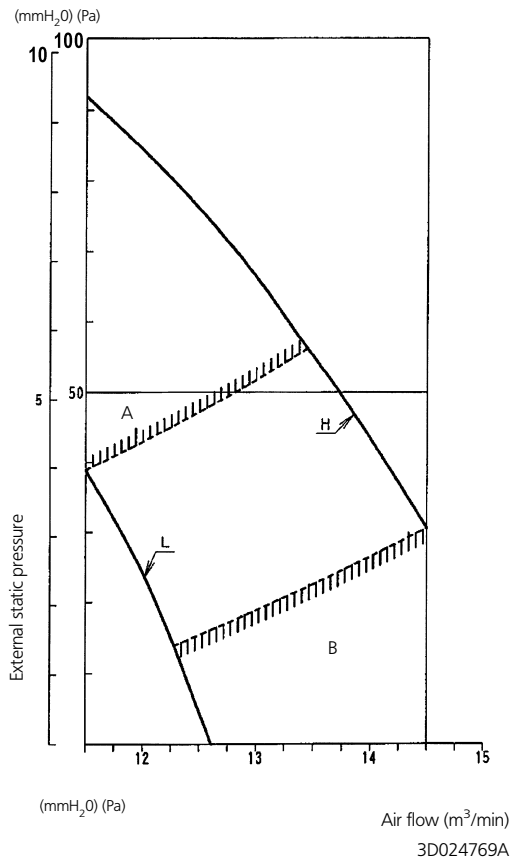
CDX25JV1NB, CDX35JV1NB



CDX50JV1NB



CDX60JV1NB




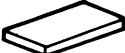





A = Upper limit of external static pressure (standard ESP)
 B = Lower limit of external static pressure (standard ESP)




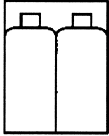
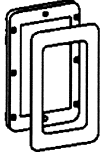



8 Accessories

8-1 Standard accessories

Clamp metal	Insulation for fitting	Sealing pad	Screws for duct flanges	Infrared remote control
1	1 of each	Large and small 1 each	1 set	1
	 For gas pipe  For liquid pipe	 Large  Small		

8

8-1

Remote control holder	AAA dry-cell batteries	Receiver kit				(Other)
		1 set	1	1	2	
1	1	1 set	1	1	2	<ul style="list-style-type: none"> • Operation manual • Installation manual
		Faceplate; faceplate frame 	Decorative cover 	Insulated mounting frame 	Screw M4 x 25 	

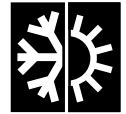
8-2 Optional accessories

	Option name	CDX25-60J
1	Centralised control board-up to 5 rooms ※1	KRC72
2	Wiring adaptor for time clock/remote control ※2 (normal open pulse contact/normal open contact)	KRP413A1S
3	Interface adapter for room air conditioners (DIII-NET)	KRP928A2S
4	Anti-theft protection for remote control	KKF917A4
5	Central remote control	DCS302B51
6	Unified ON/OFF control	DCS301B51
7	Schedule timer	DST301B51

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※1 Wiring adaptor is also required for each indoor unit.

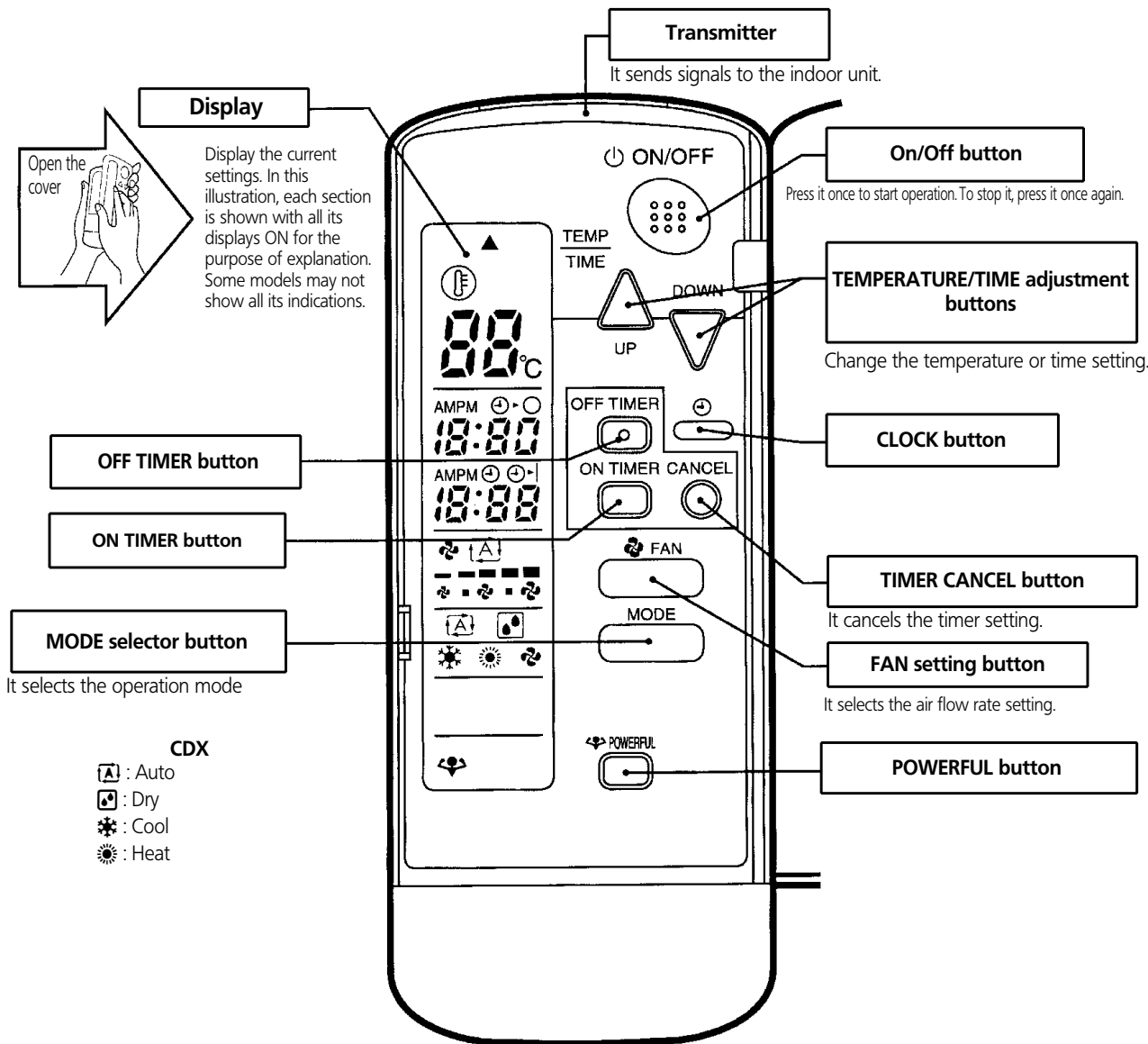
※2 Wiring adaptor supplied by Daikin. Time clock and other devices: field supply.



9 Control systems

9-1 Infrared remote control

9
9-1

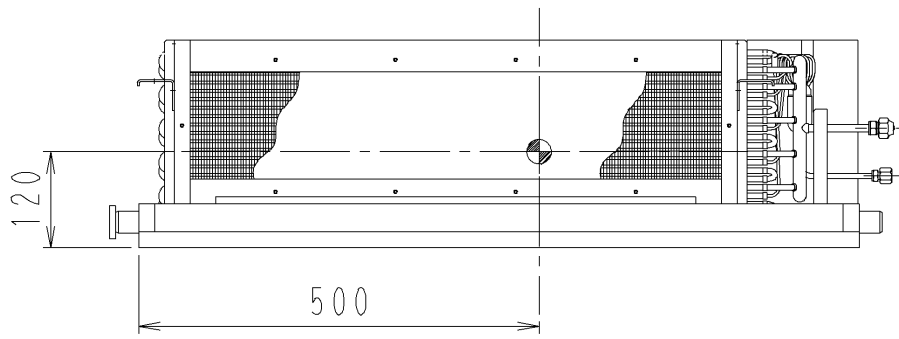
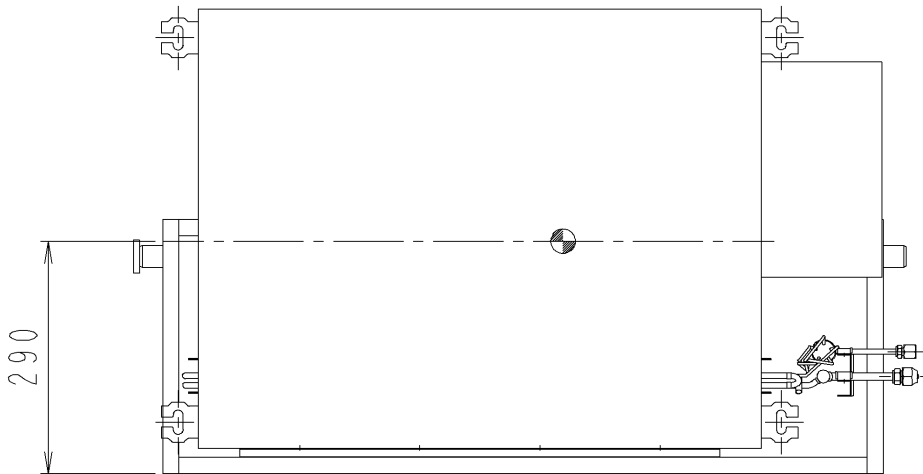


10 Center of gravity



CDX-J

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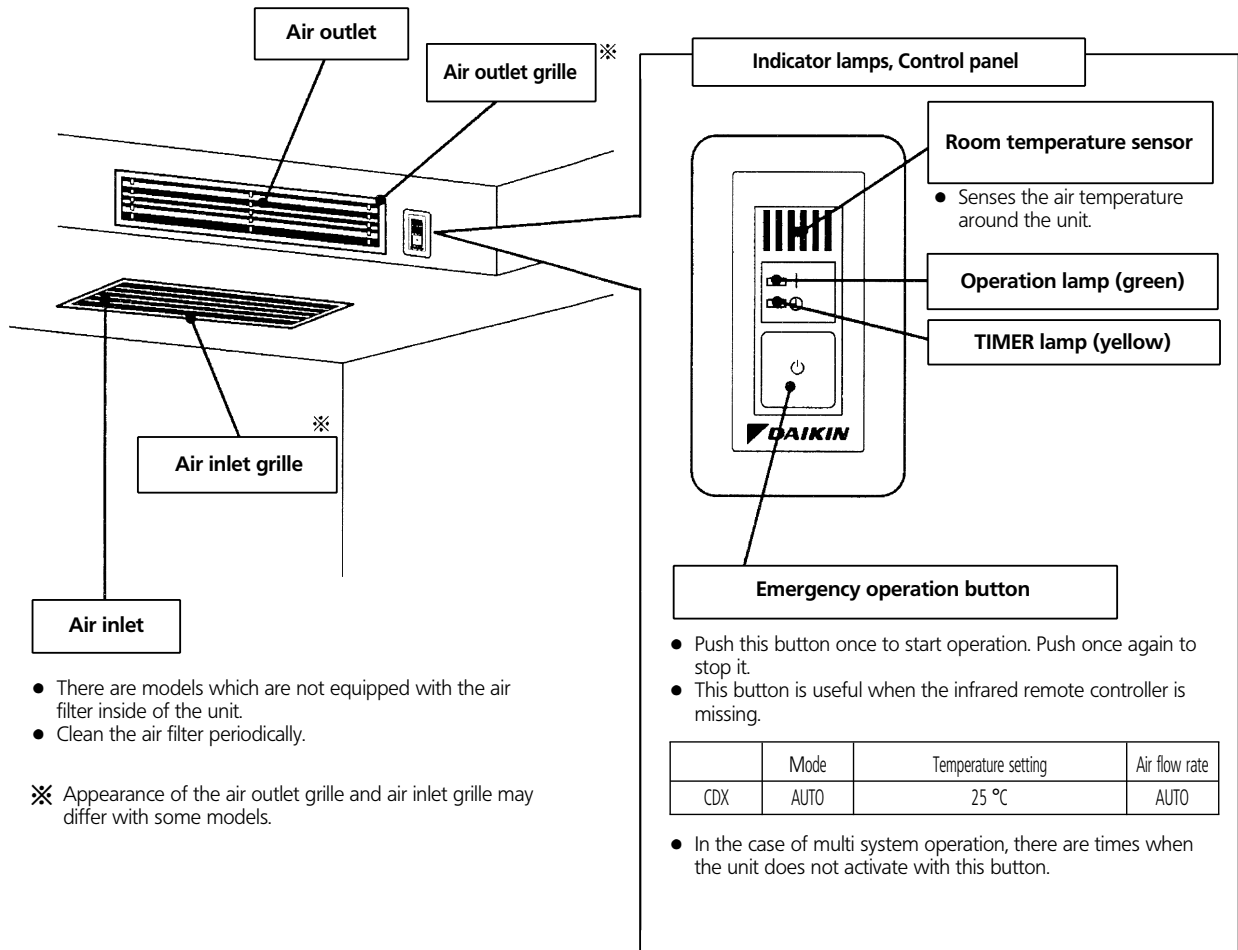
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11 Installation



11

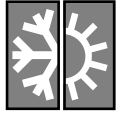
Indoor unit



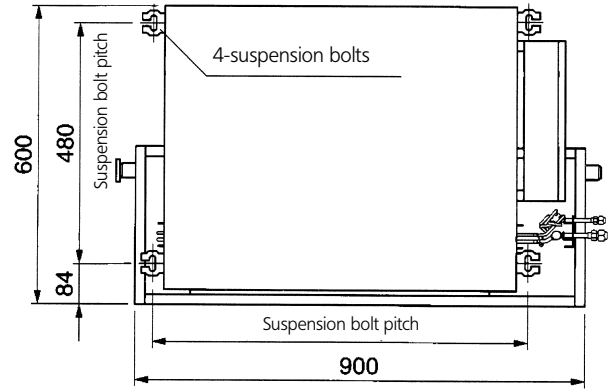
- There are models which are not equipped with the air filter inside of the unit.
- Clean the air filter periodically.

※ Appearance of the air outlet grille and air inlet grille may differ with some models.

11 Installation



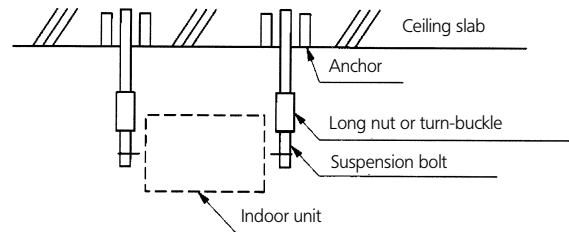
● **Relation of the unit to the suspension bolt positions**



● **Install the suspension bolts**

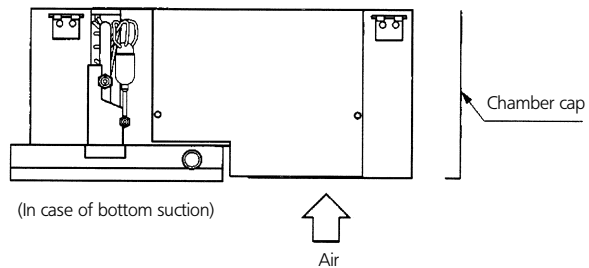
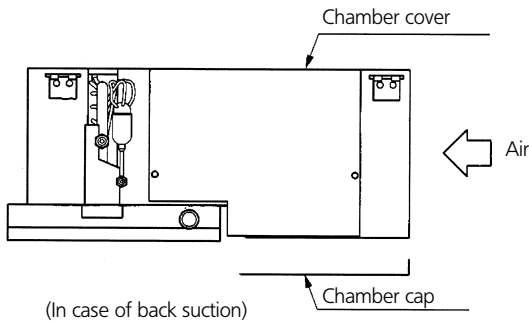
(Use M10-size bolts for the suspension bolts.)
 In order to reinforce the ceiling bearing the weight of the unit, use anchors when installing onto an existing ceiling or use sunken inserts, sunken anchors or other commercially available parts when installing onto a new ceiling.

(Installation example)



Note: All of the above parts are commercially available.

● **Mount chamber cap**



● When two indoor units are installed in one room, the two remote controls can be easily set for different addresses.

