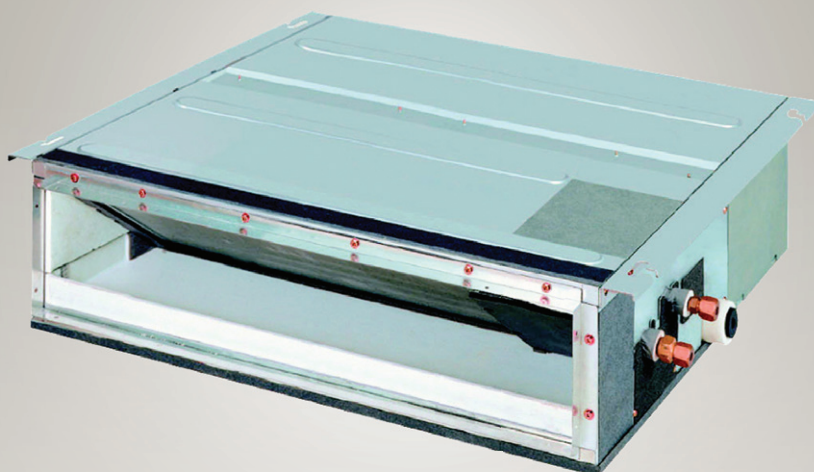


Air Conditioners

Technical Data

Concealed ceiling unit



EEDEN12-100

FDXS-E

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FDXS-E

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1 Features

- Compact dimensions, can easily be mounted in a ceiling void of only 240mm
- Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- Medium external static pressure facilitates unit use with flexible ducts of varying lengths
- Home leave operation maintains the indoor temperature at your specified comfort level during absence, thus saving energy
- Night set mode saves energy by preventing overcooling or overheating during night time
- Powerful mode can be selected for rapid heating or cooling; after the powerful mode is turned off, the unit returns to the preset mode.
- Whisper quiet operation: down to 29dBA sound pressure level
- Indoor unit silent operation: "silent" button on the remote control lowers the operation sound of the indoor unit by 3dBA
- Standard air filter removes airborne dust particles to ensure a steady supply of clean air



5 steps

2 Specifications

2-1 Technical Specifications					FDXS25E	FDXS35E
Power input - 50Hz	Cooling	Nom.	kW		0.071	
	Heating	Nom.	kW		0.071	
Dimensions	Unit	Height/Width/Depth	mm		200/700/620	
	Packed unit	Height/Width/Depth	mm		274/906/751	
Weight	Unit		kg		21.0	
	Packed unit		kg		29.0	
Heat exchanger	Length		mm		500	
	Rows	Quantity			3	
	Fin pitch		mm		1.5	
	Stages	Quantity			12	
	Tube type				ø7 Hi-XSS	
	Fin	Type			ML fin (Multi louver)	
Fan	Type				Sirocco fan	
	Air flow rate	Cooling	High	m³/min	8.7	
				cfm	307	
			Nom.	m³/min	8.0	
				cfm	282	
			Low	m³/min	7.3	
				cfm	258	
		Silent operation		m³/min	6.2	
				cfm	219	
		Heating	High	m³/min	8.7	
				cfm	307	
			Nom.	m³/min	8.0	
				cfm	282	
			Low	m³/min	7.3	
				cfm	258	
		Silent operation		m³/min	6.2	
				cfm	219	
	External static pressure	Nom.	Pa		30	
Fan motor	Quantity				1	
	Model				62C-23	
	Speed	Steps			5 + silent, + auto	
		Cooling	High/Medium/Low/Silent operation	rpm	1,270/1,180/1,090/940	
		Heating	High/Medium/Low/Silent operation	rpm	1,270/1,180/1,090/940	
	Output	High	W		62	
Sound power level	Cooling	High	dBA		53.0	
	Heating	High	dBA		53.0	
Sound pressure level	Cooling	High/Nom./Low/Silent operation	dBA		35.0/33.0/31.0/29.0	
	Heating	Super high/High/Nom./Low/Silent operation	dBA		-/35.0/33.0/31.0/29.0	
Refrigerant	Type				R-410A	
Temperature control					Microcomputer control	
Air filter	Type				Removable / washable / mildew proof	

Standard Accessories : Washer fixing plate; Quantity : 4;

Standard Accessories : Screws for duct flanges; Quantity : 1;

Standard Accessories : Clamps; Quantity : 6;

Standard Accessories : Sealing material; Quantity : 2;

Standard Accessories : Washer for hanger bracket; Quantity : 8;

Standard Accessories : Drain hose; Quantity : 1;

Standard Accessories : Clamp metal; Quantity : 1;

2 Specifications

Standard Accessories : Sealing pad; Quantity : 1;
 Standard Accessories : Insulation for fitting; Quantity : 1;
 Standard Accessories : Signal receiver cover kit; Quantity : 1;
 Standard Accessories : Fixing screw for remote control; Quantity : 2;
 Standard Accessories : Remote control holder; Quantity : 1;
 Standard Accessories : Batteries; Quantity : 2;
 Standard Accessories : Wireless remote control; Quantity : 1;
 Standard Accessories : Operation manual; Quantity : 1;
 Standard Accessories : Installation manual; Quantity : 1;
 Standard Accessories : Air filter; Quantity : 1;

2-2 Electrical Specifications				FDXS25E	FDXS35E
Power supply	Name			VM	
	Phase			1~	
	Frequency	Hz		50/60	
	Voltage	V		220-240/220-230	
Current	Nominal running current (RLA) - 50Hz	Cooling	A	0.48	
		Heating	A	0.48	
Current - 60Hz	Nominal running current		A	-	
Wiring connections - 50Hz	For power supply	Quantity		3	
		Remark		4 for interunit wiring (earth wire included)	

Notes

(1) SL: The silent fan level of the air flow rate setting

(2) Operating sound is based on the rear side suction inlet and ESP 40Pa. Operating sound for under side suction inlet: (operation sound for rear side suction inlet) +5dB. However, when installation to which the ESP becomes low is carried out, 5dB or more may go up

3 Options

3 - 1 Options

Kit name		Models	FDX(K)S25E7 FDX(K)S35E7	FDX(K)S50C7 FDX(K)S60C7
Wired remote control			BRC944A2B	
Wired remote control cord	Length 3m (Shield wire)		BRCW901A03	
	Length 5m (Shield wire)		BRCW901A08	
Wiring adapter for time clock	Normal open contact		KRP413A1S	
Remote control	Normal open pulse contact		KRP413A1S	
Centralised control board	Up to 5 rooms		KRC72A	
Central remote control			DCS302CA51	
Unified on/off control			DCS301BA51	
Schedule timer			DST301BA51	
Interface adapter			KRP928BA2S	
Anti-theft protection for remote control			KKF917AA4	
Suction grille			KDGf19A45	

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4 - 1 Dimensional Drawings

The technical drawings illustrate the dimensions and components of the MSZ-PA09V1-AE air conditioning unit. The main drawings include:

- Front View (Top Left):** Shows the unit's dimensions: 750mm width, 400mm height, and 190mm or more service space. It indicates 16x Ø12 holes for P150-500 and a suspension bolt pitch of 760mm.
- Side View (Bottom Left):** Shows the unit's depth: 200mm. It indicates 16x M4 holes and a suspension bolt 42 H6 - F7D.
- Top View (Middle Left):** Shows the unit's width: 600mm. It indicates 4x P150-500 and 16x M4 holes.
- Service Space (Middle Right):** Shows the unit's height: 400mm or more. It indicates 16x M4 holes, a suspension bolt pitch of 760mm, and a ceiling opening.
- View A (Bottom Right):** Shows the unit's width: 600mm. It indicates 4x P150-500 and 16x M4 holes.
- Infrared Remote Control (Far Right):** Shows the remote control with dimensions: 58mm width, 103mm height, and 19mm depth. It includes a signal transmitter and a signal receiver (Cord Length: 1900 mm).

The drawings also include detailed views of the unit's components, such as the timer lamp, room temperature sensor, operation lamp, indoor unit, and ON/OFF switch. The unit is shown in two configurations: "IN CASE OF BOTTOM SUCTION" and "IN CASE OF BACK SUCTION".

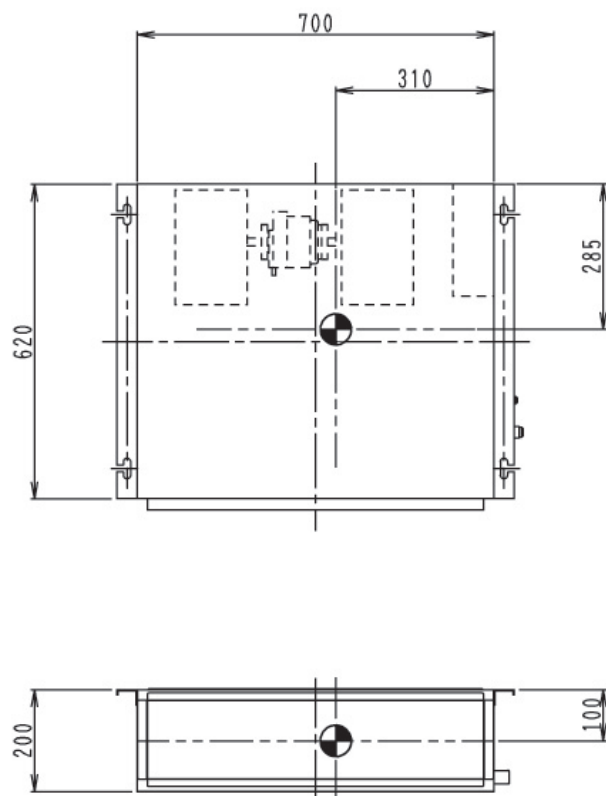
Item	Name	Description
1	Liquid pipe connection	Ø6.4 Flare connection
2	Gas pipe connection	Ø12.7 Flare connection
3	Socket for drain	VP20 (OD Ø26, ID Ø20)
4	Drain hose (accessory)	ID Ø25 (Outlet)
5	Control box	
6	Infrared receiver unit connection	
7	Power supply connection	
8	Suspension bracket	
9	Air filter (accessory)	

1. In case of back suction, mount chamber cover to bottom side of the unit.
In case of bottom suction, mount chamber cover to back side of the unit.
2. Location of unit name plate: control box cover.
3. Mount the air filter at the suction side. (Use an air filter whose dust collecting efficiency is at least 50% in a gravimetric technique). It can not be equipped with air filter (accessory) when connecting duct to suction side.

5 Centre of gravity

5 - 1 Centre of Gravity

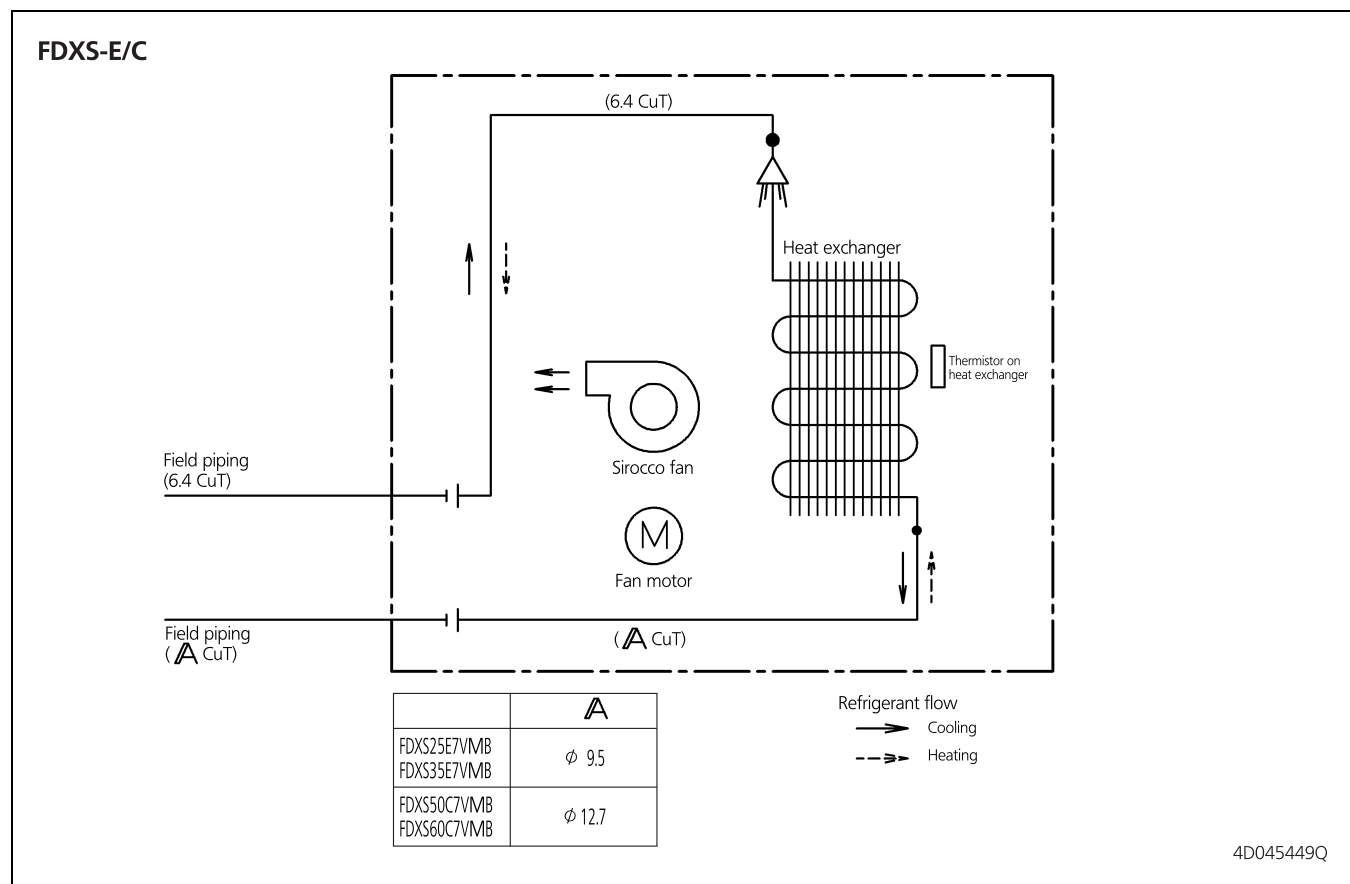
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6 Piping diagrams

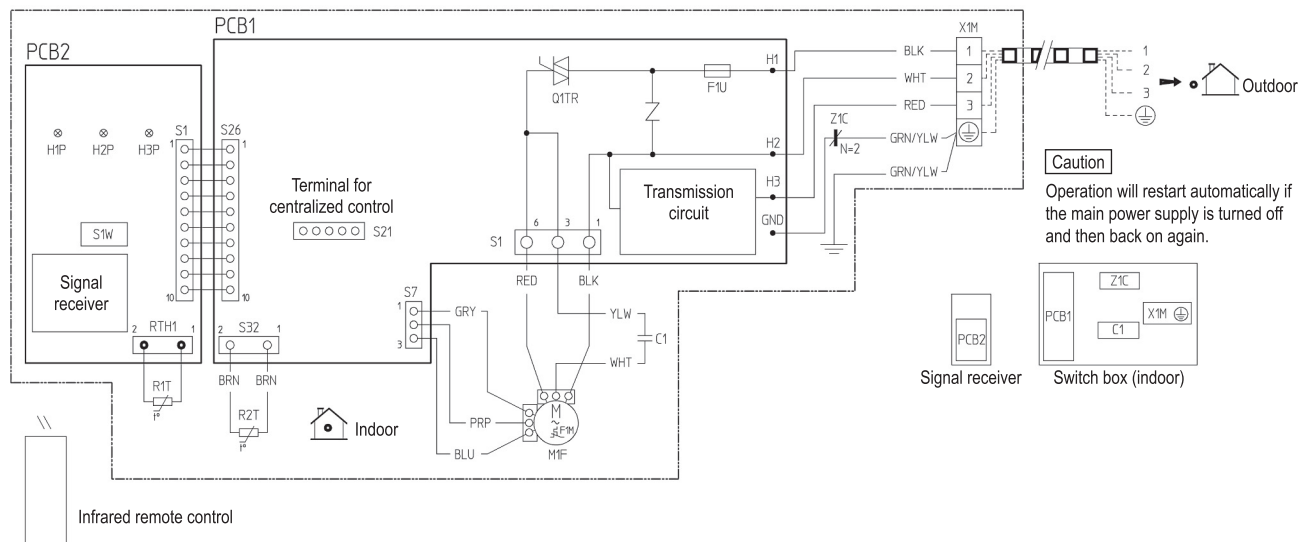
6 - 1 Piping Diagrams



7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase

FDXS-E



Indoor unit		PCB2	Signal receiver
C1	Capacitor	O1TR	Phase control circuit
F1M	Thermal protector (M1F Embedded)	R1T, R2T	Thermistor
F1U	Fuse (3.15, 250V)	S1~S32, RTH1	Connector
H1P~H3P	Light emitting diode	S1W	Operation switch
M1F	Motor (fan)	X1M	Terminal strip
PCB1	Printed circuit board	Z1C	Noise filter (Ferrite core)

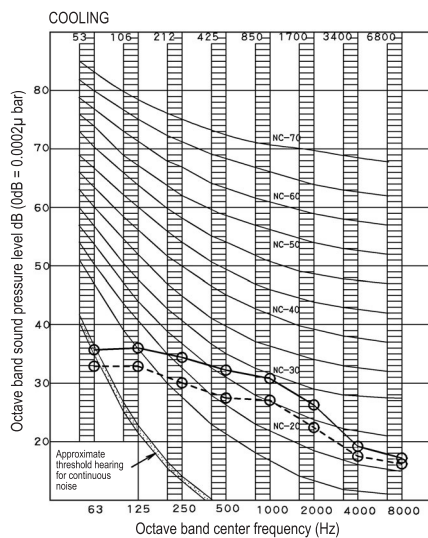
	: Field wiring	Colors:	BLK: Black	ORG: Orange	WHT: White
	: Protective earth (screw)		BLU: Blue	PNK: Pink	YLW: Yellow
	: Connector		BRN: Brown	PRP: Purple	GRN: Green
	: Wire clamp		GRY: Grey	RED: Red	

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8 Sound data

8 - 1 Sound Pressure Spectrum

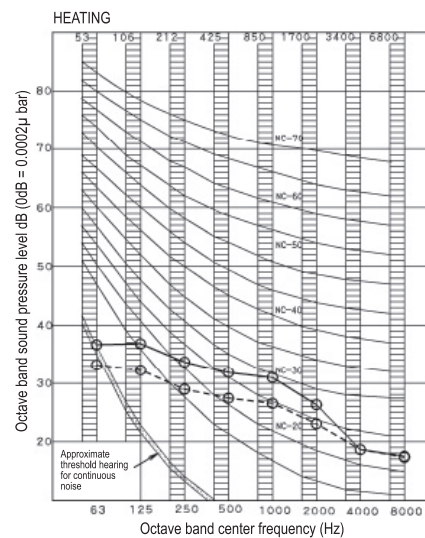
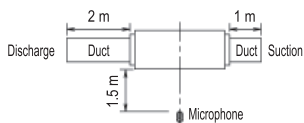
FDXS-E



NOTES

- Over All (dB):
(B,G,N is already rectified)
- Measuring place:
measure in anechoic room
- Operation noise differs with operation and ambient conditions
- The operating sound is based on the rear side suction inlet, and the external static pressure 30Pa.
- Location of microphone

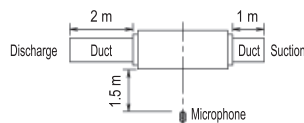
Scale	220-240V/50Hz 220-230V/60Hz (H)	220-240V/50Hz 220-230V/60Hz (L)
A	35	31



NOTES

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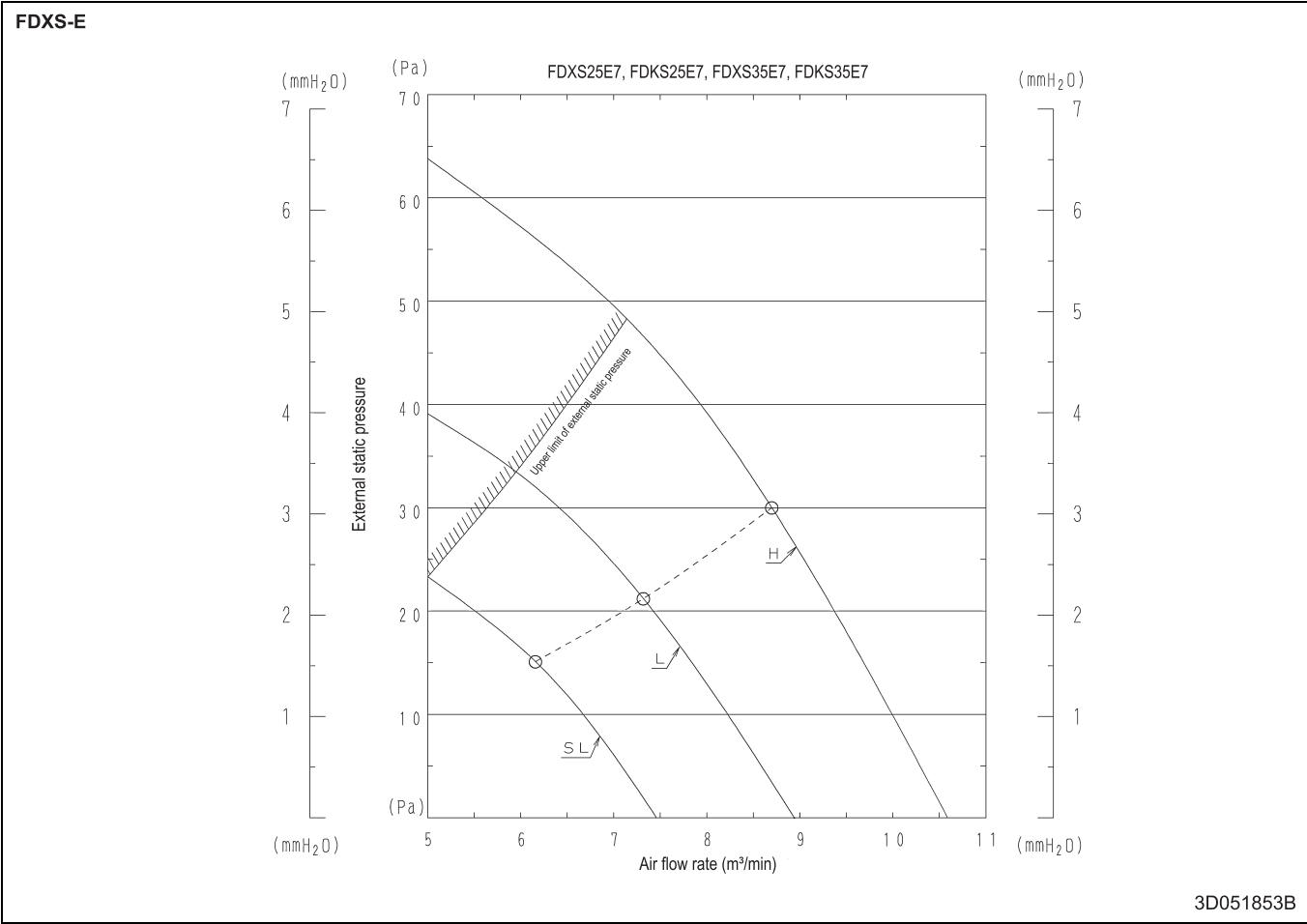
Scale	220-240V/50Hz 220-230V/60Hz (H)	220-240V/50Hz 220-230V/60Hz (L)
A	35	31



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9 Fan characteristics

9 - 1 Fan Characteristics



In all of us,
a green heart



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