

CEILING CASSETTE -4way Compact FDTC

NEW



FDTC 40/50/60

Draft Prevention Panel (option)



Energy Saving



Home Leave



Hi Power



Silent Operation



Flap Control



Favourite Setting

*Not all functions available with all remote control options.

Remote control (option)



RC-EX3A

RC-E5

RCH-E3



RCN-TC-5AW-E2

Point 1

European design & Flat panel



Integrated ceiling system design



A grille designed with a unique structure and a clean white panel harmonize with interior. This design was invented by zweigrad GmbH & Co. KG in Germany.

Compact Design

700mm → 620mm

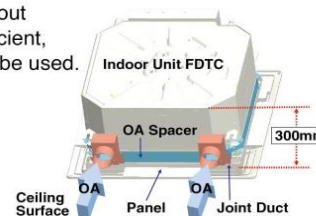
A weight of only 14kg.
Height of thin panel and main body is only 248 mm allowing it to be a very easy installation.



Taking OA (Outside Air) into inside

Fresh air can be taken in without option parts. When it is insufficient, existing option parts also can be used.

OA Spacer TC-OAS-E2(option)
Joint Duct TC-OAD-E(option)



Point 2

Draft Prevention Panel (Option)

Draft Prevention Panel prevents cold/hot draft being blown directly on the user. It is possible to set Draft Prevention Panel for each air outlet.



User can position Draft Prevention Panel panels by using the remote controller only (RC-EX3A, RCN-TC-5AW-E2).

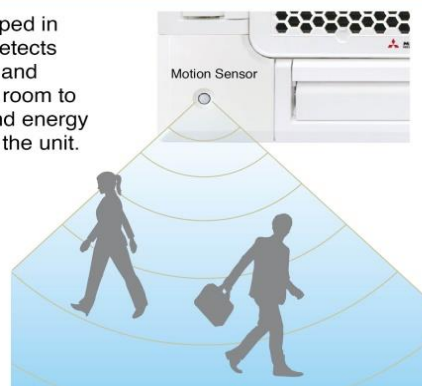
Point 3

Motion Sensor (Option)

Motion sensor is equipped in the panel corner and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.



LB-TC-5W-E



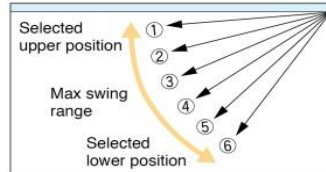
Point 4

Individual flap control system

According to room temperature conditions, four directions of air flow can be controlled individually by following Flap control system. Individual flap control is available even after installation.



The flap can swing within the range of upper and lower flap position selected with wired remote control.



※The wireless remote control is not applicable to the Individual flap control system.

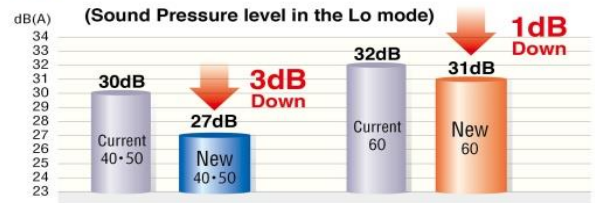
Point 5

850mm Drain Pump

Drain can be discharged upward by 850 mm from the ceiling surface close to the indoor unit. It allows a piping layout with a high degree of freedom depending on the installation location.

Point 6

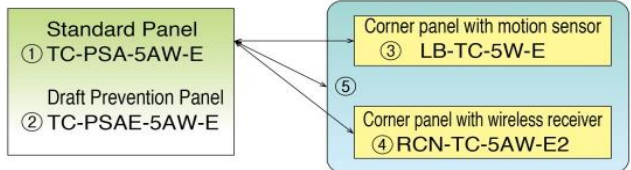
Quiet operation



Point 7

Panel select pattern

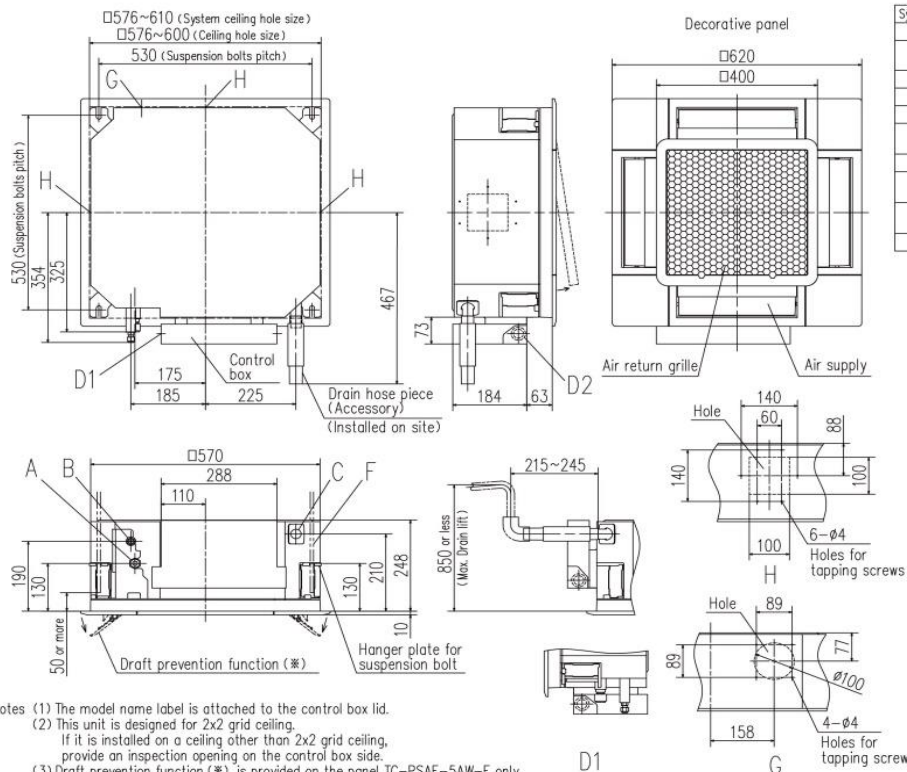
8 patterns of panel are available. Please refer to P27.



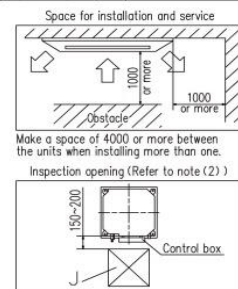
OUTDOOR UNIT

SRC • FDC	Hyper Inverter			Micro Inverter		
	40~60ZSX	71VNX	100~140VN(S)X	100~140VN(S)A	200VSA	250VSA
model						
Chargeless	15m	30m		30m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	1,300 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370

DIMENSIONS (Unit:mm)



Symbol	Model	25,35	40,50,60
A	Gas piping	ø9.52 (3/8") (Flare)	ø12.7 (1/2") (Flare)
B	Liquid piping	ø6.35 (1/4") (Flare)	
C	Drain piping	VP25 (O.D.32)	
D1	Power supply connection		
D2	Remote control code and signal wiring connection		
F	Suspension bolts	(M10 or M8)	
G	Outside air opening for ducting	(Knock out)	
H	Air outlet opening for ducting	ø125 (Knock out)	
J	Inspection opening	450X450	



- Notes (1) The model name label is attached to the control box lid.
 (2) This unit is designed for 2x2 grid ceiling.
 If it is installed on a ceiling other than 2x2 grid ceiling, provide an inspection opening on the control box side.
 (3) Draft prevention function (※) is provided on the panel TC-PSAE-5AW-E only.

SPECIFICATIONS

		<i>Hyper Inverter</i>		
Set model name		FDTC40ZSXVG	FDTC50ZSXVG	FDTC60ZSXVG
Indoor unit		FDTC40VG	FDTC50VG	FDTC60VG
Outdoor unit		SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	4.0 (1.1 ~ 4.7)	5.0 (1.1 ~ 5.6)	5.6 (1.1 ~ 6.3)
Nominal heating capacity (Min~Max)	kW	4.5 (0.6 ~ 5.4)	5.4 (0.6 ~ 6.3)	6.7 (0.6 ~ 6.7)
Power consumption	Cooling/Heating	0.98 / 1.13	1.43 / 1.53	1.76 / 2.14
EER/COP	Cooling/Heating	4.08 / 3.98	3.50 / 3.53	3.18 / 3.13
Inrush current		5	5	5
Max. current		12	15	15
Sound power level*1	Indoor	59 / 59	59 / 59	60 / 60
	Outdoor	63 / 63	63 / 63	65 / 64
Sound pressure level*1	Indoor	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
	Outdoor	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
Air flow	Indoor	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
	Outdoor	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
Exterior dimensions		Unit: 248 x 570 x 570 Panel: 10 x 620 x 620		
Net weight		640 x 800(+71) x 290		
Ref.piping size		16.5(Unit:14 Standard Panel:2.5)		
Refrigerant line (one way) length		45		
Vertical height differences		6.35(1/4") / 12.7(1/2")		
Outdoor operating temperature range		Max.30		
Panel		Max.20 / Max.20		
Air filter, Q'ty		-15~46*3		
Remote control (option)		-20~24		
		TC-PSA-5AW-E, TC-PSAE-5AW-E		
		Pocket plastic net x 1(Washable)		
		wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E2		

The values are for simultaneous Multi operation.

		<i>Hyper Inverter</i>						
Set model name		FDTC71VNXPVG	FDTC100VNXPVG	FDTC125VNXPVG	FDTC140VNXTPVG	FDTC100VSXPVG	FDTC125VSXPVG	FDTC140VSXTVG
Indoor unit		Twin		Triple		Twin		Triple
Outdoor unit		FDTC40VG x 2	FDTC50VG x 2	FDTC60VG x 2	FDTC50VG x 3	FDTC50VG x 2	FDTC60VG x 2	FDTC50VG x 3
Power source		FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX
Nominal cooling capacity (Min~Max)		1 Phase 220-240V, 50Hz / 220V, 60Hz						
Nominal heating capacity (Min~Max)		3 Phase 380-415V, 50Hz / 380V, 60Hz						
Power consumption	Cooling/Heating	7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)
EER/COP	Cooling/Heating	8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)
Power consumption	Cooling/Heating	2.03 / 1.64	2.80 / 3.50	4.10 / 4.10	4.20 / 4.34	2.80 / 3.50	4.10 / 4.10	4.20 / 4.34
EER/COP	Cooling/Heating	3.50 / 4.88	3.57 / 3.20	3.05 / 3.41	3.33 / 3.69	3.57 / 3.20	3.05 / 3.41	3.33 / 3.69
Inrush current		5	5	5	5	5	5	5
Max. current		17	24	24	26	15	15	15
Sound power level*1	Indoor*2	59 / 59	59 / 59	60 / 60	59 / 59	59 / 59	60 / 60	59 / 59
	Outdoor	66 / 66	70 / 70	70 / 70	72 / 72	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor*2	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27
	Outdoor	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27
Air flow	Indoor*2	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7
	Outdoor	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7
Exterior dimensions		60 / 50	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100
Net weight		Unit: 248 x 570 x 570 Panel: 10 x 620 x 620						
Ref.piping size		750 x 880(+88) x 340	1,300 x 970 x 370					
Refrigerant line (one way) length		60	16.5(Unit:14 Standard Panel:2.5)					
Vertical height differences			105					
Outdoor operating temperature range			9.52(3/8") / 15.88(5/8")					
Panel			Max.30 / Max.15					
Air filter, Q'ty			-15~43*3					
Remote control (option)			-20~20					
			TC-PSA-5AW-E, TC-PSAE-5AW-E					
			Pocket plastic net x 1(Washable)					
			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E2					

NOTES:

The data are measured under the following conditions(ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

*2 : The values are for one indoor unit operation. (Multi system only)

*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name		Micro Inverter		
		FDTC100VNAPVG	FDTC125VNAPVG	FDTC140VNATVG
		Twin		Triple
Indoor unit		FDTC50VG x 2	FDTC60VG x 2	FDTC50VG x 3
Outdoor unit		FDC100VNA	FDC125VNA	FDC140VNA
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)		11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)
Power consumption		3.30 / 3.15	4.90 / 4.50	4.75 / 4.60
EER/COP		3.03 / 3.56	2.55 / 3.11	2.86 / 3.37
Inrush current		5	5	5
Max. current		25	25	25
Sound power level* ¹	Indoor* ²	59 / 59	60 / 60	59 / 59
	Outdoor	70 / 70	71 / 71	73 / 73
Sound pressure level* ¹	Indoor* ²	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27
	Outdoor	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27
Air flow	Indoor* ²	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7
	Outdoor	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7
Exterior dimensions		Unit: 248 x 570 x 570 Panel: 10 x 620 x 620		
		845 x 970 x 370		
Net weight		16.5(Unit:14 Standard Panel:2.5)		
		80		
Ref.piping size		9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		Max.50		
Vertical height differences		Max.50 / Max.15		
Outdoor operating temperature range		-15~50* ³		
		-20~20		
Panel		TC-PSA-5AW-E, TC-PSAE-5AW-E		
Air filter, Q'ty		Pocket plastic net x 1(Washable)		
Remote control (option)		wired:RC-EX3A, RC-E5, RCH-E3, wireless:RCN-TC-5AW-E2		

The values are for simultaneous Multi operation.

Set model name			Micro Inverter											
			FDTC100VSAPVG		FDTC125VSAPVG		FDTC140VSATVG		FDTC200VSADVG		FDTC250VSADVG			
			Twin				Triple		Double Twin					
Indoor unit			FDTC50VG x 2		FDTC60VG x 2		FDTC50VG x 3		FDTC50VG x 4		FDTC60VG x 4			
Outdoor unit			FDC100VSA		FDC125VSA		FDC140VSA		FDC200VSA		FDC250VSA			
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz											
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)		12.5 (5.0 ~ 14.0)		13.6 (5.0 ~ 14.5)		19.0 (5.2 ~ 22.4)		24.0 (6.9 ~ 28.0)		
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)		14.0 (4.0 ~ 16.0)		15.5 (4.0 ~ 16.5)		22.4 (3.3 ~ 25.0)		27.0 (5.5 ~ 31.5)		
Power consumption		Cooling/Heating	kW	3.30 / 3.15		4.90 / 4.50		4.75 / 4.60		6.95 / 10.7		6.79 / 8.20		
EER/COP		Cooling/Heating		3.03 / 3.56		2.55 / 3.11		2.86 / 3.37		2.73 / 2.10		3.53 / 3.29		
Inrush current			A	5		5		5		5		5		
Max. current				15		15		15		20		21		
Sound power level* ¹	Indoor* ²	Cooling/Heating	dB(A)	59 / 59		60 / 60		59 / 59		59 / 59		60 / 60		
	Outdoor	Cooling/Heating		70 / 70		71 / 71		73 / 73		72 / 74		75 / 75		
Sound pressure level* ¹	Indoor* ²	Cooling (P-Hi/Hi/Mo/Lo) Heating (P-Hi/Hi/Mo/Lo)	dB(A)	44 / 40 / 35 / 27 44 / 40 / 35 / 27		46 / 42 / 38 / 31 46 / 42 / 38 / 31		44 / 40 / 35 / 27 44 / 40 / 35 / 27		44 / 40 / 35 / 27 44 / 40 / 35 / 27		46 / 42 / 38 / 31 46 / 42 / 38 / 31		
	Outdoor	Cooling/Heating		54 / 56		55 / 57		57 / 59		58 / 59		61 / 62		
Air flow	Indoor* ²	Cooling (P-Hi/Hi/Mo/Lo) Heating (P-Hi/Hi/Mo/Lo)	m ³ /min	13 / 11 / 9 / 7 13 / 11 / 9 / 7		14 / 12 / 10 / 8 14 / 12 / 10 / 8		13 / 11 / 9 / 7 13 / 11 / 9 / 7		13 / 11 / 9 / 7 13 / 11 / 9 / 7		14 / 12 / 10 / 8 14 / 12 / 10 / 8		
	Outdoor	Cooling/Heating		75 / 73		75 / 73		75 / 73		135 / 135		143 / 151		
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620										
	Outdoor			845 x 970 x 370						1,300 x 970 x 370		1,505 x 970 x 370		
Net weight	Indoor		kg	16.5(Unit:14 Standard Panel:2.5)										
	Outdoor			82						115		143		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")						9.52(3/8") / 22.22(7/8")		12.7(1/2") / 22.22(7/8")		
Refrigerant line (one way) length			m	Max.50						Max.70				
Vertical height differences			Outdoor is higher/lower	m	Max.50 / Max.15						Max.30 / Max.15			
Outdoor operating temperature range	Cooling		°C	-15~50* ³										
	Heating			-20~20						-15~20				
Panel				TC-PSA-5AW-E, TC-PSAE-5AW-E										
Air filter, Q'ty				Pocket plastic net x 1(Washable)										
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E2										