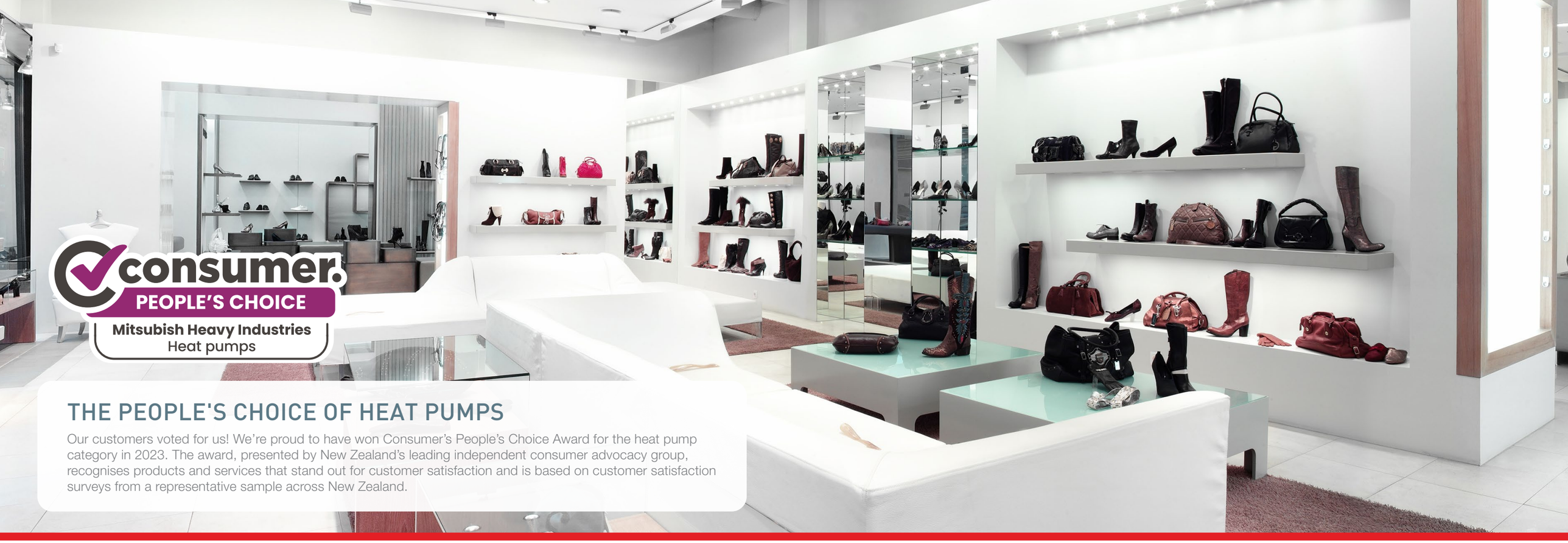
MITSUBISHI HEAVY INDUSTRIES

HEAT PUMPS

consumer. PEOPLE'S CHOICE Mitsubish Heavy Industries Heat pumps

HEATING AND COOLING SOLUTIONS

CEILING SYSTEMS



consumer.
PEOPLE'S CHOICE
Mitsubish Heavy Industries
Heat pumps

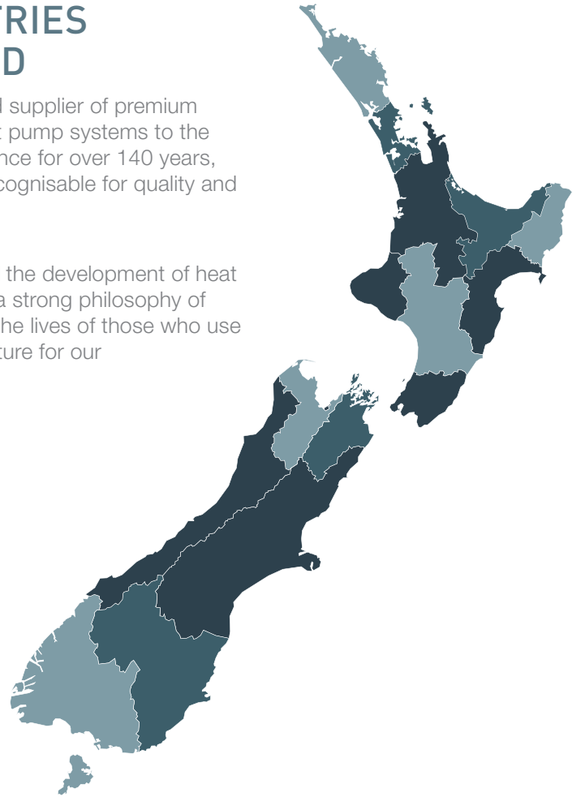
THE PEOPLE'S CHOICE OF HEAT PUMPS

Our customers voted for us! We're proud to have won Consumer's People's Choice Award for the heat pump category in 2023. The award, presented by New Zealand's leading independent consumer advocacy group, recognises products and services that stand out for customer satisfaction and is based on customer satisfaction surveys from a representative sample across New Zealand.

MITSUBISHI HEAVY INDUSTRIES HEAT PUMPS NEW ZEALAND

Mitsubishi Heavy Industries Heat Pumps is a trusted supplier of premium residential and commercial air conditioning and heat pump systems to the New Zealand market. Delivering engineering excellence for over 140 years, the Mitsubishi Heavy Industries brand is instantly recognisable for quality and technological advancement.

With innovation central to both the organisation and the development of heat pump systems, Mitsubishi Heavy Industries carries a strong philosophy of engineering products that are designed to improve the lives of those who use them and, at the same time, create a sustainable future for our company and the world we live in.



COMMITTED TO QUALITY

Standing behind the quality of our products is our commitment to our customers and our after sales service guarantees. Along with the rigorous quality assurance testing carried out on all our products, comprehensive warranties provide you with peace of mind.

DEDICATED LOCAL SUPPORT

Located in our Auckland head office, our dedicated customer service team are on hand to support our customers. Whether it's a question about our products, troubleshooting, warranty information or a user manual - our team of local experts are here to help.

5 YEARS PARTS AND LABOUR WARRANTY

Mitsubishi Heavy Industries focuses solely on manufacturing high performance heat pumps for the New Zealand market. All our systems are of the highest quality and are backed by a full 5 year parts and labour warranty.

ENERGY PERFORMANCE STANDARDS

To comply with New Zealand standards and deliver the most efficient solutions possible to our customers, all Mitsubishi Heavy Industries systems meet and exceed the Minimum Energy Performance Standards (MEPS).

Key Features and Functions

Our ceiling systems come with a number of key convenient features and functions that are designed to ensure your comfort all year round. See page 9 for the full list of all features and functions.

HIGH POWER OPERATION

Provides 15mins of boosted power allowing you to quickly heat or cool your home before returning to normal operation. Perfect for when you first turn on the unit.

WEEKLY TIMER

Set up to 8 timer operations a day (max 56 per week). Once set, the unit will turn on and off at the specified times of the day repeatedly.

SLEEP TIMER

Allows you to set a pre-determined amount of time between 30 and 240 mins that your unit will operate for before switching off.

SILENT OPERATION

Program periods where the unit will operate with reduced noise levels.

BUILT-IN DRAIN PUMP

The built-in drain pump, which includes a lift of 850mm, allows greater flexibility with installation, offering a great solution for applications with limited space*.

VERTICAL AUTO SWING

Set the vertical louvres on your unit to move up and down continuously during operation. This function allows you to set the up/down swing position of the louvre to your preferred angle.

*Applicable to FDT and FDTC products

Our Technology

IMPROVED HEAT EXCHANGER

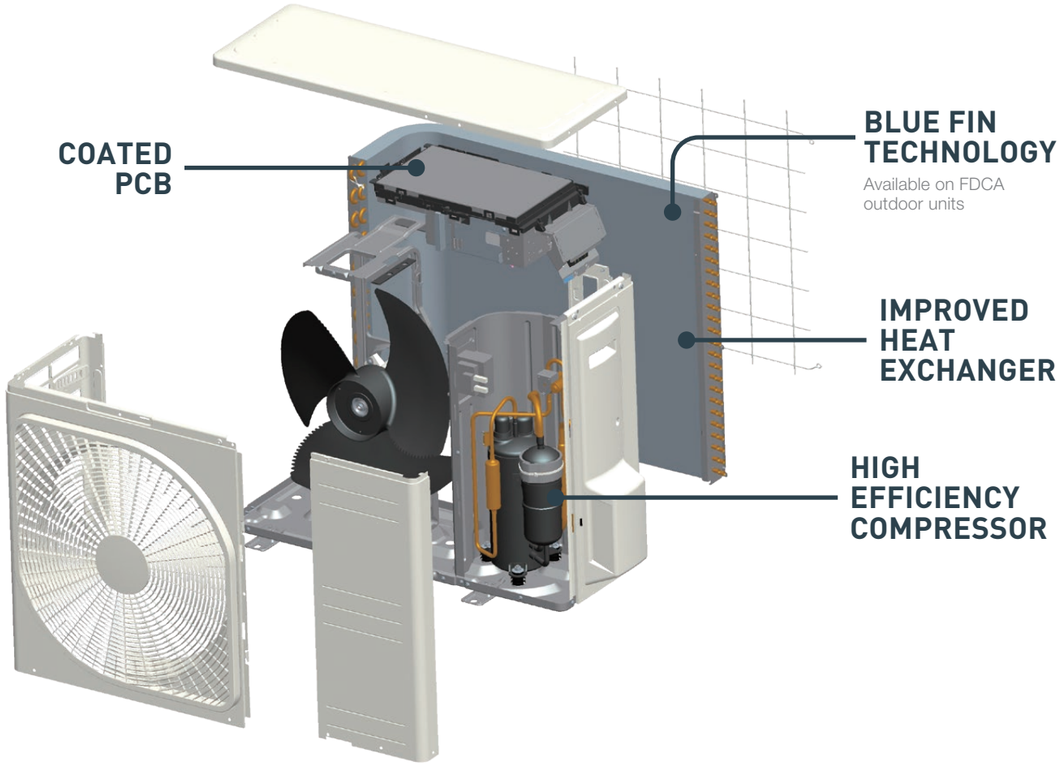
Our new and improved heat exchanger has been developed to improve refrigerant distribution and increase the systems effectiveness. The new design features a larger heat exchange area, boosting the unit's overall efficiency.

COATED PCB

To protect against humid weather a protective coating is applied to the circuit board in the outdoor unit, allowing it to withstand New Zealand's varying weather conditions and ensure the longevity of your system.

BLUE FIN TECHNOLOGY

Mitsubishi Heavy Industries outdoor units are coated with specially formulated layers that assist in preventing the hydrophilicity effect and assists in reducing the corrosion rate of the aluminium section from harsh New Zealand weather conditions.



HIGH EFFICIENCY COMPRESSOR

One of the key features that provides Mitsubishi Heavy Industries heat pumps with their powerful performance is our highly efficient compressor. Combined with a Neodymium motor that uses powerful, rare earth magnets, Mitsubishi Heavy Industries heat pumps can deliver a higher motor efficiency while producing much less operational noise.

DC PAM INVERTER

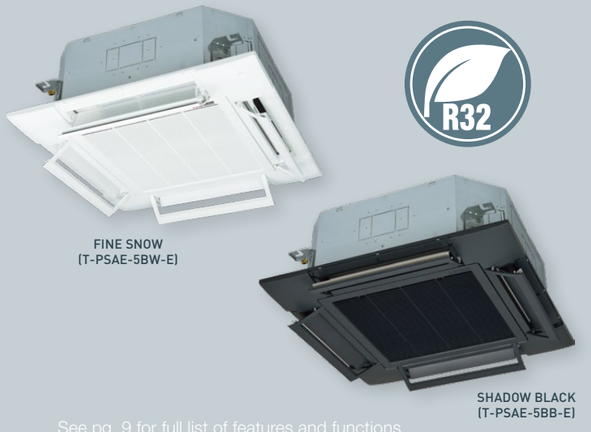
The PAM control used in Mitsubishi Heavy Industries heat pumps helps minimise the loss of electricity and boost the efficiency by allowing the unit to reach the temperature quickly before slowing down the compressor. This allows the unit to save energy while maintaining a comfortable temperature in the room.

WIDE OPERATION RANGE

With our advanced technology and high quality components, Mitsubishi Heavy Industries heat pumps can operate in ambient outdoor temperatures as low as -20˚C in heating mode and as high as +50˚C in cooling mode.

This permits the installation in areas where the temperature conditions can be considered extreme.

FDT Series



See pg. 9 for full list of features and functions

Control Solutions

Wired

RC-EXZ3A

RCH-E3

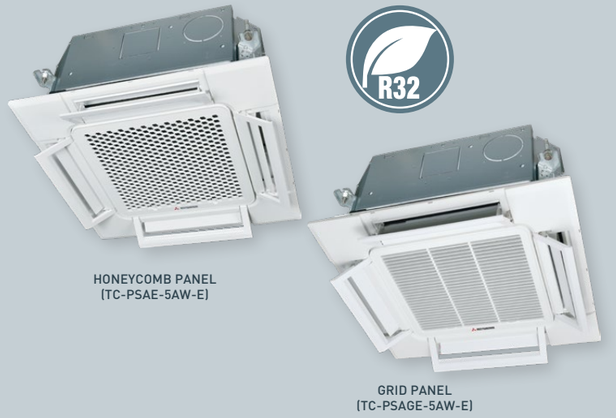
Wireless

RCN-T-5BW-E2 (FINE SNOW)
RCN-T-5BB-E2 (SHADOW BLACK)

Motion Sensor

LB-T-5BW-E (FINE SNOW)
LB-T-5BB-E (SHADOW BLACK)

FDTC Series



See pg. 9 for full list of features and functions

Control Solutions

Wired

RC-EXZ3A

RCH-E3

Wireless

RCN-TC-5AW-E3 (FINE SNOW)

Motion Sensor

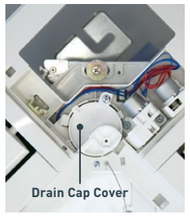
LB-TC-5W-E

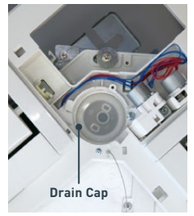
Four Way Ceiling Cassette
5.6kW | 7.1kW | 10.0kW | 12.5kW |14.0kW

EASY MAINTENANCE

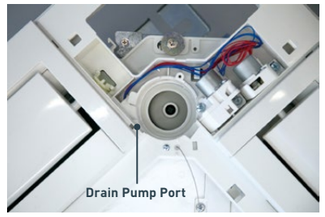
Easily check the drain pan by simply removing the corner panel.

Remove cover lid





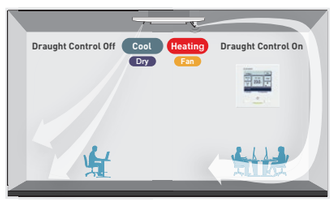
Remove drain cap cover and check the condition. To clean, firstly remove the rubber plug to drain water before removing the drain cap.



Clean up the area around the drain pump port.

DRAUGHT PREVENTION PANEL

The Draught Prevention Panel utilises 4 specially designed louvres to direct airflow horizontally along the ceiling, eliminating uncomfortable draughts.

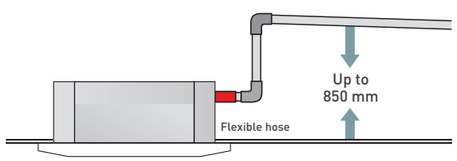


INDIVIDUAL LOUVRE CONTROL

Individually control each of the four louvre's position, to deliver varied airflow in all directions.

BUILT-IN DRAIN PUMP

Drain can be discharged upwards by 850mm from the ceiling surface allowing for flexible piping layout to suit many applications.

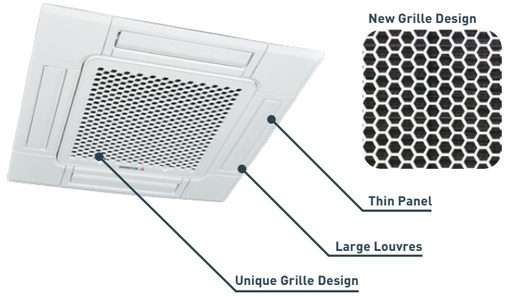


Compact Four Way Ceiling Cassette
2.5kW | 3.5kW | 5.0kW | 5.6kW

GOOD DESIGN AWARD® WINNER

FLAT PANEL AND GRILL DESIGN

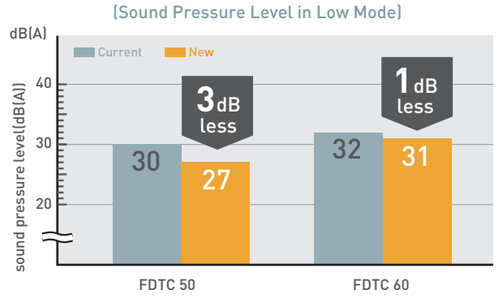
Weighing only 14kgs, with a main body height of only 248mm and fascia panel of only 10mm, the new FDTC series can be easily installed in a huge range of applications where space may be limited.



QUIETER OPERATION

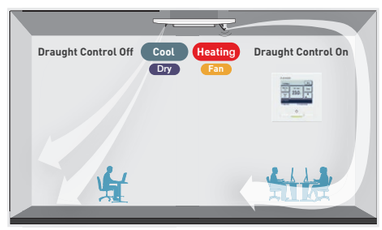
New and improved turbo fan and heat exchanger design has allowed for a reduction in operation noise.

(Sound Pressure Level in Low Mode)



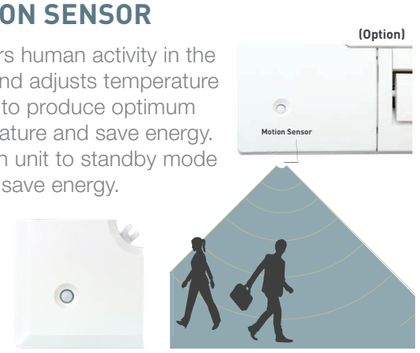
DRAUGHT PREVENTION PANEL

The Draught Prevention Panel utilises 4 specially designed louvres to direct airflow horizontally along the ceiling, eliminating uncomfortable and annoying draughts.



MOTION SENSOR

Monitors human activity in the room and adjusts temperature setting to produce optimum temperature and save energy. Will turn unit to standby mode to also save energy.



FDE Series

Control Solutions

Wired

RC-EXZ3A

RCH-E3

Wireless

RCN-E-E3

Motion Sensor

LB-E

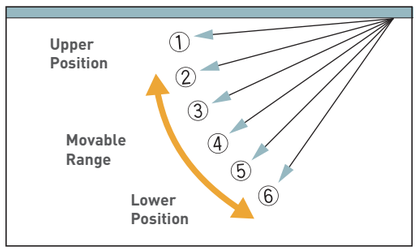
See pg. 9 for full list of features and functions

Ceiling Suspended
7.1kW | 10.0kW | 12.5kW |14.0kW

ADJUSTABLE LOUVRES

Set the louvres in a number of fixed positions for effective air distribution.

*Not available with RCH-E3 controller



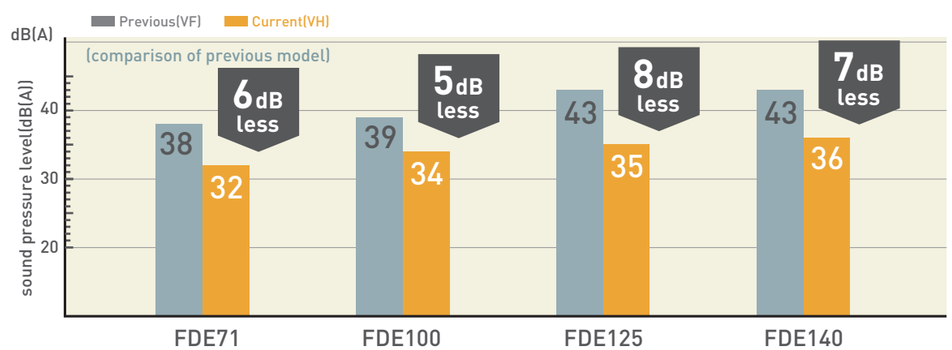
SLIM LIGHTER DESIGN

By reducing the number of fan motors, the FDE series has been able to adopt a slim and more lightweight design.

	Previous (VF)		Current (VH)	
FDE71	37	➡	33	4kg less!
FDE100	49	➡	43	6kg less!
FDE125	49	➡	43	6kg less!
FDE140	49	➡	43	6kg less!

REDUCED OPERATION NOISE

By adjusting airflow volume and decreasing pressure loss by utilising one single fan motor, the FDE series boasts some of the industry's lowest operation noise levels.



Features and Functions

	FUNCTION		DESCRIPTION	FDT	FDTC	FDE
AIRFLOW		Louvre Control System	Set the upper and lower limit positions of the louvre at each air outlet individually, providing you with complete control over interior air flow.	●	●	●
		Automatic Fan Speed	The unit's on-board microcomputer continuously monitors the room's air temperature and adjusts the air flow automatically.	●	●	●
		Vertical Auto Swing	The vertical louvres on your unit will move up and down continuously during operation. This function allows you to set the up/down swing position of the louvre to your preferred operation angle.	●	●	●
CLENA AIR		Air Filter	The air filter in the unit traps and removes airborne dust particles and other allergens to provide you with a clean air function.	●	●	●
		Filter Sign	Warning that alerts you to when the filter needs to be cleaned.	●	●	●
		Outside Air Intake	Provides clean fresh air into the room through the external air intake, avoiding the constant recycling of internal air.	●	● Optional	
MAINTENANCE		Self Diagnostics	The internal microcomputer automatically runs a diagnostic of the system in the event of a malfunction. This enables your authorised dealer to isolate and repair any issues.	●	●	●
		Built-in Drain Pump	The built-in drain pump, which includes a lift of 850mm, allows greater flexibility with installation, offering a great solution for applications with limited space.	●	●	
		Set Temperature Auto Return*	Alllows you to program a preferred set temperature that the unit will return to each time it is operated.	●	●	●
ENERGY SAVING		Home Leave Operation*	Ensures that when the room is unoccupied for long periods of time, the unit will maintain a moderate indoor temperature, avoiding extremely hot or cool temperatures.	●	●	●
		Peak-Cut Timer*	Preset the capacity limit during certain periods of the day, minimising energy consumption during peak billing times, thus reducing operation costs.	●	●	●
OPERATION		Hi Power Operation*	Provides 15mins of boosted heating or cooling power before returning to normal operation. Perfect for when first using the unit.	●	●	●
		Silent Operation	Allows you to program periods where the unit will operate with reduced noise levels, perfect for night time and an uninterrupted sleep.	●	●	●
		Automatic Operation	Automatically selects the required heating or cooling function based on the current room conditions.	●	●	●
		Weekly Timer	Set your unit to turn on and off automatically on a weekly basis to suit your usual room usage on each day.	●	●	●
		Sleep Timer	Set a pre-determined amount of time between 30 and 240 mins that your unit will operate for before switching off.	●	●	●
		Function Switch*	From the six available functions on the unit, this function allows you to set two functions to operate automatically. (Note: this is not available when a centralised remote control is connected).	●	●	●

*Functions can only be enabled using RC-EXZ3A wired controller.
On/off timer, weekly timer and sleep timer are disabled if Wi-Fi accessory connected. Similar functions can be set via the AC Cloud application.

Optional Control Solutions

WIRED CONTROLLERS

RC-EXZ3A

- Large, 3.8” backlit LCD touch screen with easy to navigate menu.
- Control the set temperature, operation mode and fan speed.
- Access timer and scheduling functions.
- Access additional features including Home Leave mode, Silent Mode, High Power mode plus many more.
- Multi-language display (6 languages).

RCH-E3

- Simple, easy to use controller.
- Control the set temperature, operation mode and fan speed.

WIRELESS KITS AND REMOTE CONTROLS

KEY FEATURES

- Hi Power Mode
- Energy Saving Mode
- Home Leave Mode
- Silent Mode
- On / Off Timer
- Child Lock

FDT

RCN-T-5BW-E2 (FINE SNOW)

RCN-T-5BB-E2 (SHADOW BLACK)

FDTC

RCN-TC-5AW-E3 (FINE SNOW)

FDE

RCN-E-E3

THERMISTOR (OPTIONAL)

Used in cases where the sensor in the indoor unit or the remote control can not detect the room temperature correctly or individual remote control in each room is not required.

SC-THB-E3

WI-FI ADAPTOR

MH-RC-WIFI-1B

The MH-RC-WIFI-1B allows you to control your system via your smart device or browser including on/off, temperature, mode and fan speed settings.

Device to be installed by a qualified licensed person, and to a location not susceptible to temperatures above 40°C.

Control Your Air Your Way

- CONTROL YOUR SYSTEM USING YOUR SMARTPHONE, TABLET OR DESKTOP VIA EASY TO USE AC CLOUD CONTROL APP*.
- CONTROL YOUR SYSTEM USING VOICE COMMAND VIA YOUR GOOGLE OR AMAZON SMART DEVICE**.
- SET UP 'FAVOURITE' SCENES AND ACTIVATE THEM WITH A SINGLE TAP.
- SET YOUR SYSTEM TO RESPOND TO THE WEATHER, YOU ARRIVING HOME, CALENDAR EVENTS AND MORE**.
- RECEIVE INSTANT NOTIFICATIONS AND EMAIL UPDATES AND CREATE USAGE LOGS**.

*Requires MH-RC-WI-FI-1B Wi-Fi adaptor (sold separately).
**In conjunction with IFTTT and other apps (must be downloaded separately).
Note: Some functions may not be available via AC Cloud Control app.

AC Cloud Control

GET IT ON Google Play

Download on the App Store

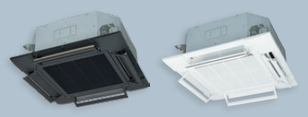
Compatible with

Amazon Alexa | Google Assistant | Apple Siri

Controlling your device with AC Cloud Control app requires aforementioned Wi-Fi adaptors and working internet or Wi-Fi connection. Google Account required for use with Google devices. Features and services may change without notice. Google is a trademark of Google LLC.

PRODUCT SPECIFICATIONS

FDT SERIES


FDT60-140VH


SRC60ZSXA-W


FDCA71VNX-W, FDC100VNP-W


FDCA100VNA-W, FDC100VSA-W FDC125VNP-W


FDCA125-140VNX-W, FDCA125-140VSX-W

Images are for illustration purposes and actual product labels may differ.

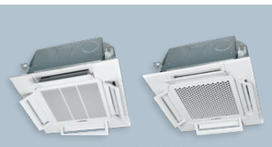
CAPACITY				5.6kW	7.1kW	10.0kW	10.0kW	12.1kW	12.5kW	14.0kW	10kW	12.5kW	14.0kW
Set				FDT60ZSXAWVH	FDT71AVNXWVH	FDT100AVNAWVH	FDT100VNPWVH	FDT125VNPWVH	FDT125AVNXWVH	FDT140AVNXVH	FDT100AVSAWVH	FDT125AVSXWVH	FDT140AVSXWVH
Indoor				FDT60VH	FDT71VH	FDT100VH	FDT100VH	FDT125VH	FDT125VH	FDT140VH	FDT100VH	FDT125VH	FDT140VH
Outdoor				SRC60ZSXA-W	FDCA71VNX-W	FDCA100VNA-W	FDC100VNP-W	FDC125VNP-W	FDCA125VNX-W	FDCA140VNX-W	FDCA100VSA-W	FDCA125VSX-W	FDCA140VSX-W
Power Source (Outdoor Unit)				1 Phase 240V 50Hz							3 Phase 380-415V 50Hz		
*Operation Data	Nominal Capacity (Range)	Cooling T1	kW	5.6 (1.1-6.3)	7.1 (3.2-8.0)	10.0 (4.0-11.2)	10 (2.1 -10.2)	12..1 (5.0-12.1)	12.5 (3.5-14.0)	14.0 (3.5-16.0)	10.0 (4.0-11.2)	12.5 (3.5-14.0)	14.0 (3.5-16.0)
		Heating H1		6.7 (0.6-6.7)	8.0 (3.6-9.0)	11.2 (4.0-12.5)	10 (1.7 - 10.4)	12.1 (4.0-13.3)	14.0 (2.7-17.0)	16.0 (2.7-18.0)	11.2 (4.0-12.5)	14.0 (2.7 -18.0)	16.0 (2.7-20.0)
		Heating H2		6.30	7.40	10.00	7.60	8.50	14.70	15.50	10.00	14.70	15.50
	Power Consumption	Cooling T1		1.33	1.69	2.73	2.84	3.69	3.21	3.87	2.73	3.81	3.87
		Heating H1		1.56	1.75	2.54	2.33	3.2	3.43	4.20	2.54	3.72	4.20
	Maximum Power Consumption			2.90	4.11	6.40	4.46	4.75	7.10	7.10	10.20	8.90	8.90
	Running Current	Cooling T1	A	5.9	7.5	13.2	12.1	15.5	14.2	17.0	4.2	6.4	6.2
		Heating H1		6.9	7.8	12.4	9.9	13.5	15.1	18.3	3.9	6.3	6.7
	Inrush Current, Maximum Current			5, 15	5, 19.1	5, 24	5,19	5, 18	5, 27	5, 27	5, 15	5, 14	5, 14
	EER	Cooling T1		4.21	4.20	3.66	3.52	3.28	3.89	3.62	3.66	3.89	3.62
	COP	Heating H1		4.29	4.58	4.41	4.29	3.78	4.08	3.81	4.41	4.08	3.81
	Sound Power Level (JIS C9612)	Outdoor	dB(A)	65	66	69	68	73	70	71	70	70	71
	Sound Pressure Level (JIS C9612)	Indoor		P-Hi:44 Hi:34 Me:30 Lo:27	P-Hi:46 Hi:34 Me:31 Lo:26	P-Hi:47 Hi:39 Me:36 Lo:30	P-Hi:47 Hi:39 Me:36 Lo:30	P-Hi:48 Hi:41 Me:39 Lo:31	P-Hi:48 Hi:41 Me:39 Lo:31	P-Hi:48 Hi:42 Me:39 Lo:32	P-Hi:47 Hi:39 Me:36 Lo:30	P-Hi:48 Hi:41 Me:39 Lo:31	P-Hi:48 Hi:42 Me:39 Lo:32
		Outdoor		53	51	54	56	57	54	54	55	54	54
External dimensions (HXWXD)		Indoor	mm	236x840x840	236x840x840	298x840x840	298x840x840	298x840x840	298x840x840	298x840x840	298x840x840	298x840x840	298x840x840
		Panel		35x950x950 T-PSAE-5BW-E (Fine Snow) / T-PSAE-5BB-E (Shadow Black)									
		Outdoor		640x800(+71)x290	750x880(+88)x340	845x970x370	750×880(+88)×340	845x970x370	1300x970x370	1300x970x370	845x970x370	1300x970x370	1300x970x370
Net weight		Indoor	kg	Unit 21 Panel 5	Unit 21 Panel 5	Unit 25 Panel 5	Unit 25 Panel 5	Unit 25 Panel 5	Unit 25 Panel 5	Unit 25 Panel 5	Unit 25 Panel 5	Unit 25 Panel 5	Unit 25 Panel 5
		Outdoor		45	60	77	57	73	97	97	78	99	99
Airflow		Cooling (Indoor)	l/s	P-Hi:433 Hi:283 Me:233 Lo:183	P-Hi:467 Hi:300 Me:250 Lo:200	P-Hi: 616 Hi:433 Me: 383 Lo:283	P-Hi:616 Hi:433 Me:383 Lo:283	P-Hi:633 Hi:467 Me:417 Lo:300	P-Hi: 633 Hi:467 Me: 417 Lo:300	P-Hi: 633 Hi:483 Me: 433 Lo:317	P-Hi: 616 Hi:433 Me: 383 Lo:283	P-Hi:633 Hi:467 Me:417 Lo:300	P-Hi: 633 Hi:483 Me: 433 Lo:317
		Heating (Indoor)											
Installation Data	Refrigerant (R32)	Quantity	kg	1.3	2.75	3.3	1.7	2.25	4.0	4.0	3.3	4.0	4.0
		Pre-Charged to Pipe	m	15	30	30	15	15	30	30	30	30	30
	Refrigerant Piping	Liquid Line	mm	Ø6.35 (1/4")	Ø9.52 (3/8")	Ø9.52 (3/8")	**Ø6.35 (1/4")	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø9.52 (3/8")
		Gas Line		Ø12.7 (1/2")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")
	Connection Method			Flare Connection									
	Maximum Pipe Length (One Way)		m	30	50	50	30	30	100	100	50	100	100
	Max Vertical Height Diff. Between O.U. and I.U.			20 (O.U. above I.U.) / 20 (O.U. below I.U.)	30 (O.U. above I.U.) / 15 (O.U. below I.U.)	50 (O.U. above I.U.) / 15 (O.U. below I.U.)	20 (O.U. above I.U.) / 20 (O.U. below I.U.)		50 (O.U. above I.U.) / 15 (O.U. below I.U.)				
Controller				RC-E5, RC-EXZ3A, RCH-E3 or RCN-T-5BW-E2 (Fine Snow) / RCN-T-5BB-E2 (Shadow Black)									
Motion Sensor (Optional)				LB-T-5BW-E (Fine Snow) / LB-T-5BB-E (Shadow Black)									
Demand Response (AS4755)				Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
Outdoor air temperature (upper, lower limits)		Cooling	°C	-15 to 46	-15 to 50	-15 to 50	-15 to 46	-15 to 46	-15 to 50	-15 to 50	-15 to 50	-15 to 50	-15 to 50
		Heating		-20 to 20	-20 to 20	-20 to 20	-15 to 20	-15 to 20	-20 to 20	-20 to 20	-20 to 20	-20 to 20	-20 to 20

Item / Operation	Indoor Air Temperature DB	Indoor Air Temperature WB	Outdoor Air Temperature DB	Outdoor Air Temperature WB	Standards
Cooling	27°C	19°C	35°C	24°C	AS/NZ 3823.2
Heating	20°C	-	7°C	6°C	

(1) The data is measured at the conditions mentioned in the table to the left.
(2) The air conditioner is manufactured and tested in conformity with the AS/NZS.
(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
(4) Select the breaker size according to applicable national standard.
(5) The operation data indicates when the air-conditioner is operated at 240V 50Hz.
**Reducer set Ø9.52 (3/8") -> Ø6.35 (1/4") is included in the outdoor unit as accessory for FDC100VNP-W.

PRODUCT SPECIFICATIONS

FDTC SERIES


FDTC25-60VH


SRC25-35ZSA-W


SRC50-60ZSXA-W

Images are for illustration purposes and actual product labels may differ.

CAPACITY				2.5kW	3.5kW	5.0kW	5.6kW
Set				FDTC25ZSAWVH1	FDTC35ZSAWVH1	FDTC50ZSXAWVH	FDTC60ZSXAWVH
Indoor				FDTC25VH1	FDTC35VH1	FDTC50VH	FDTC60VH
Outdoor				SRC25ZSA-W	SRC35ZSA-W	SRC50ZSXA-W	SRC60ZSXA-W
Power Source (Outdoor Unit)				1 Phase 240V 50Hz			
*Operation Data	Nominal Capacity (Range)	Cooling T1	kW	2.5 (0.9-3.5)	3.5 (0.9-4.3)	5.0 (1.1 -5.6)	5.6 (1.1-6.3)
		Heating H1		3.4 (0.9-4.6)	4.25 (0.9-4.6)	5.4 (0.6-6.3)	6.7 (0.6-6.7)
		Heating H2		3.45	3.95	4.80	5.80
	Power Consumption	Cooling T1		0.54 (0.18-0.89)	0.91 (0.18-1.37)	1.40	1.73
		Heating H1		0.77 (0.18-1.36)	1.08 (0.19 -1.33)	1.53	2.14
	Maximum Power Consumption			1.65	1.65	2.90	2.90
	Running Current	Cooling T1	A	2.7	4.1	6.2	7.6
		Heating H1		3.6	4.8	6.7	9.4
	Inrush Current, Maximum Current			3.6, 9	4.8, 9	5, 15	5, 15
	EER	Cooling T1		4.63	3.85	3.58	3.23
	COP	Heating H1		4.42	3.94	3.53	3.13
	Sound Power Level (JIS C9612)	Outdoor	dB(A)	59	62	63	65
	Sound Pressure Level (JIS C9612)	Indoor		P-Hi:38 Hi:34 Me:30 Lo:27	P-Hi:39 Hi:36 Me:32 Lo:29	P-Hi:44 Hi:40 Me:35 Lo:27	P-Hi:46 Hi:42 Me:38 Lo:31
		Outdoor		47	50	52	53
External dimensions (HXWXD)		Indoor	mm	248x570x570	248x570x570	248x570x570	248x570x570
		Panel		10X620X620 TC-PSAE-5AW-E (Honeycomb) / TC-PSAGE-5AW-E (Grid)			
		Outdoor		540x780(+62)x290	540x780(+62)x290	640x800(+71)x290	640x800(+71)x290
Net weight		Indoor	kg	Unit 13.5 Panel 2.5	Unit 13.5 Panel 2.5	Unit 14 Panel 2.5	Unit 14 Panel 2.5
		Outdoor		34.5	34.5	45	45
Airflow		Cooling (Indoor)	l/s	P-Hi: 142 Hi: 125 Me: 117 Lo: 100	P-Hi: 150 Hi: 133 Me: 125 Lo: 108	P-Hi: 217 Hi: 183 Me: 150 Lo: 117	P-Hi: 233 Hi: 200 Me: 167 Lo: 133
		Heating (Indoor)		P-Hi: 175 Hi: 142 Me: 125 Lo: 108	P-Hi: 183 Hi: 150 Me: 133 Lo: 117		
Installation Data	Refrigerant (R32)	Quantity	kg	0.78	0.78	1.3	1.3
		Pre-Charged to Pipe	m	15	15	15	15
	Refrigerant Piping	Liquid Line	mm	Ø6.35 (1/4")	Ø6.35 (1/4")	Ø6.35 (1/4")	Ø6.35 (1/4")
		Gas Line		Ø9.52 (3/8")	Ø9.52 (3/8")	Ø12.7 (1/2")	Ø12.7 (1/2")
	Connection Method			Flare Connection			
	Maximum Pipe Length (One Way)		m	20	20	30	30
	Max Vertical Height Diff. Between O.U. and I.U.			10 (O.U. above I.U.) / 10 (O.U. below I.U.)		20 (O.U. above I.U.) / 20 (O.U. below I.U.)	
Controller				RC-E5, RC-EXZ3A, RCH-E3 or RCN-TC-5AW-E2 / RCN-TC-5AW-E3 (Fine Snow)			
Motion Sensor (Optional)				LB-TC-5W-E			
Demand Response (AS4755)				Yes	Yes	Yes	Yes
Outdoor air temperature (upper, lower limits)		Cooling	°C	-15 to 46	-15 to 46	-15 to 46	-15 to 46
		Heating		-15 to 24	-15 to 24	-20 to 20	-20 to 20

*The data is measured under the following conditions (AS / NZS 3823.2). 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.

PRODUCT SPECIFICATIONS

FDE SERIES


FDE71-140VH


FDCA71VNX-W, FDC100VNP-W


FDCA100VNA-W , FDCA100VSA-W


FDCA125-140VNX-W, FDCA125-140VSX-W

Images are for illustration purposes and actual product labels may differ.

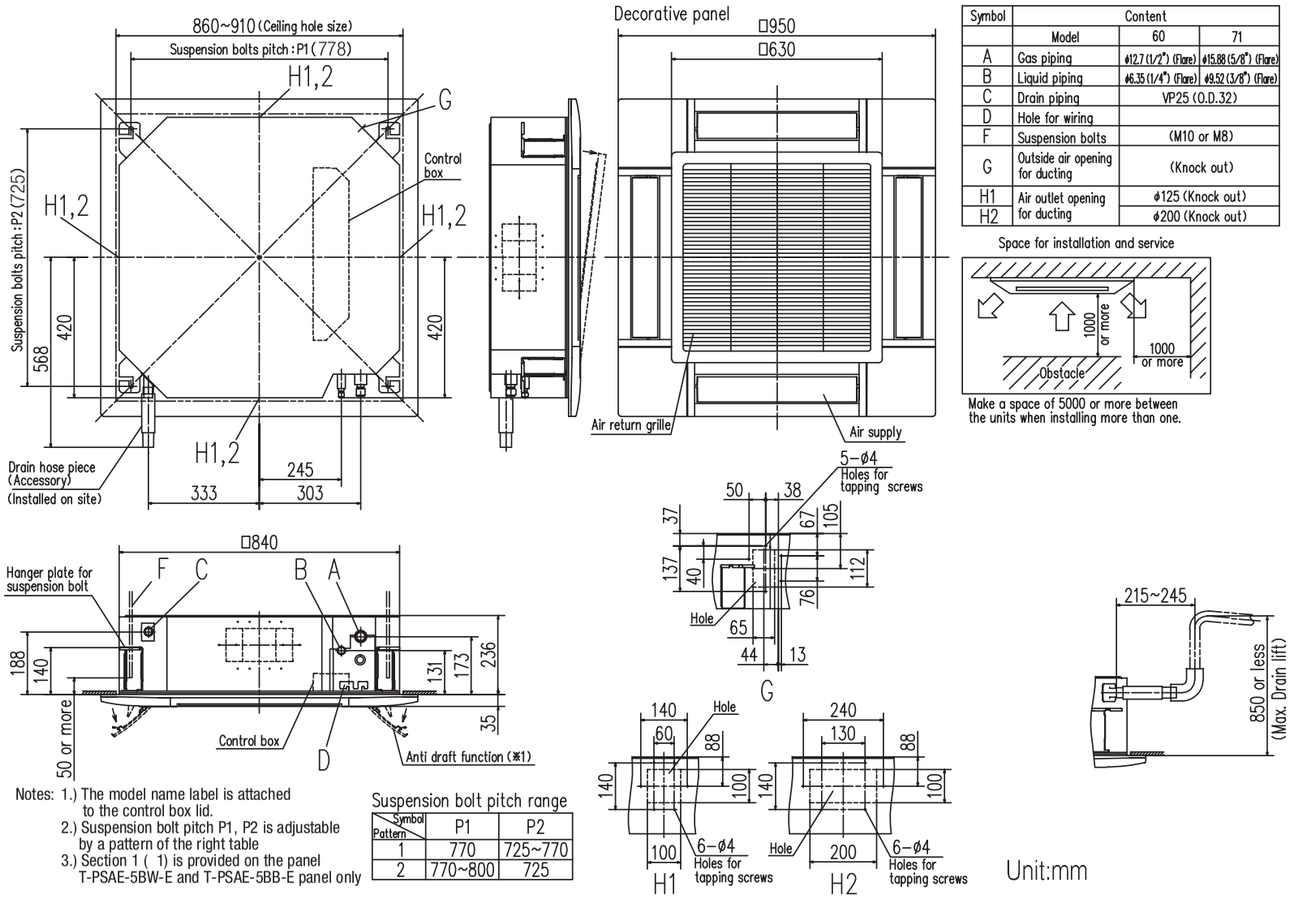
CAPACITY				7.1kW	10.0kW	10.0kW	12.1kW	12.5kW	14.0kW	10kW	12.5kW	14.0kW
Set				FDE71AVNXWVH	FDE100AVNAWVH	FDE100VNPWVH	FDE125VNPWVH	FDE125AVNXWVH	FDE140AVNXWVH	FDE100AVSAWVH	FDE125AVSNWVH	FDE140AVSXWVH
Indoor				FDE71VH	FDE100VH	FDE100VH	FDE125VH	FDE125VH	FDE140VH	FDE100VH	FDE125VH	FDE140VH
Outdoor				FDCA71VNX-W	FDCA100VNA-W	FDC100VNP-W	FDC125VNP-W	FDCA125VNX-W	FDCA140VNX-W	FDCA100VSA-W	FDCA125VSX-W	FDCA140VSX-W
Power Source (Outdoor Unit)				1 Phase 240V 50Hz						3 Phase 380-415V 50Hz		
*Operation Data	Nominal Capacity (Range)	Cooling T1	kW	7.1 (3.2-8.0)	10.0 (4.0-11.2)	10 (2.1 -10.2)	12.1 (5.0-12.1)	12.5 (3.5-14.0)	14.0 (3.5-16.0)	10.0 (4.0-11.2)	12.5 (3.5-14.0)	14.0 (3.5-16.0)
		Heating H1		8.0 (3.6-9.0)	11.2 (4.0-12.5)	10 (1.7 - 10.4)	12.1 (4.0-13.3)	14.0 (2.7-17.0)	16.0 (2.7-18.0)	11.2 (4.0-12.5)	14.0 (2.7-18.0)	16.0 (2.7-20.0)
		Heating H2		7.40	10.00	7.60	7.90	14.90	15.50	10.00	14.90	15.50
	Power Consumption	Cooling T1		1.87	2.85	3.00	3.88	3.34	4.08	2.85	3.77	4.08
		Heating H1		1.87	2.54	2.36	3.30	3.74	4.41	2.54	3.74	4.41
	Maximum Power Consumption			4.11	6.40	4.46	4.75	7.10	7.10	10.20	8.90	8.90
	Running Current	Cooling T1	A	8.3	13.8	12.8	16.3	14.7	17.9	4.6	6.3	6.5
		Heating H1		8.3	12.4	10.1	13.9	16.4	19.4	4.0	6.3	7.2
	Inrush Current, Maximum Current			5, 19.1	5, 24	5, 19	5, 18	5, 27	5, 27	5, 15	5, 14	5, 14
	EER	Cooling T1		3.80	3.51	3.33	3.12	3.75	3.43	3.51	3.75	3.43
	COP	Heating H1		4.28	4.41	4.24	3.67	3.74	3.63	4.41	3.74	3.63
	Sound Power Level (JIS C9612)	Outdoor	dB(A)	66	69	68	73	68	69	69	69	69
	Sound Pressure Level (JIS C9612)	Indoor		P-Hi:47 Hi:41 Me:37 Lo:32	P-Hi:48 Hi:43 Me:38 Lo:34	P-Hi: 48 Hi: 43 Me: 38 Lo: 34	P-Hi: 48 Hi: 45 Me: 40 Lo: 35	P-Hi:48 Hi:45 Me:40 Lo:35	P-Hi:49 Hi:45 Me:40 Lo:36	P-Hi:48 Hi:43 Me:38 Lo:34	P-Hi:48 Hi:45 Me:40 Lo:35	P-Hi:49 Hi:45 Me:40 Lo:36
		Outdoor		51	54	54	57	53	54	54	53	54
External dimensions (HXWXD)		Indoor	mm	210x1320x690	250x1620x690	250x1620x690	250x1620x690	250x1620x690	250x1620x690	250x1620x690	250x1620x690	250x1620x690
		Outdoor		750x880(+88)x340	845x970x370	750x880(+88)x340	845x970x370	1300x970x370	1300x970x370	845x970x370	1300x970x370	1300x970x370
Net weight		Indoor	kg	33	43	43	43	43	43	43	43	43
		Outdoor		60	77	57	73	97	97	78	99	99
Airflow		Cooling (Indoor)	l/s	P-Hi:333 Hi:267 Me:217 Lo:167	P-Hi:533 Hi:433 Me: 350 Lo:275	P-Hi:533 Hi:433 Me:350 Lo:275	P-Hi:533 Hi:483 Me: 383 Lo: 283	P-Hi:533 Hi:483 Me:383 Lo:283	P-Hi:567 Hi:483 Me:383 Lo:300	P-Hi:533 Hi:433 Me: 350 Lo:275	P-Hi:533 Hi:483 Me: 383 Lo:283	P-Hi:567 Hi:483 Me: 383 Lo:300
		Heating (Indoor)										
Installation Data	Refrigerant (R32)	Quantity	kg	2.75	3.3	1.7	2.25	4.0	4.0	3.3	4.0	4.0
		Pre-Charged to Pipe	m	30	30	15	15	30	30	30	30	30
	Refrigerant Piping	Liquid Line	mm	Ø9.52 (3/8")	Ø9.52 (3/8")	**Ø6.35 (1/4")	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø9.52 (3/8")
		Gas Line		Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")
	Connection Method			Flare Connection								
	Maximum Pipe Length (One Way)		m	50	50	30	30	100	100	50	100	100
	Max Vertical Height Diff. Between O.U. and I.U.			30 (O.U. above I.U.) / 15 (O.U. below I.U.)	50 (O.U. above I.U.) / 15 (O.U. below I.U.)	20 (O.U. above I.U.) / 20 (O.U. below I.U.)		50 (O.U. above I.U.) / 15 (O.U. below I.U.)				
Controller				RC-E5, RC-EXZ3A, RCH-E3 or RCN-E-E3								
Motion Sensor (Optional)				LB-E								
Demand Response (AS4755)				Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
Outdoor air temperature (upper, lower limits)		Cooling	°C	-15 to 50	-15 to 50	-15 to 46	-15 to 46	-15 to 50	-15 to 50	-15 to 50	-15 to 50	-15 to 50
		Heating		-20 to 20	-20 to 20	-15 to 20	-15 to 20	-20 to 20	-20 to 20	-20 to 20	-20 to 20	-20 to 20

*The data is measured under the following conditions (AS / NZS 3823.2). 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.
**Reducer set Ø9.52 (3/8") -> Ø6.35 (1/4") is included in the outdoor unit as accessory for FDC100VNP-W.

EXTERIOR DIMENSIONS

FDT SERIES

FDT60-71VH



Symbol	Content		
	Model	60	71
A	Gas piping	ø12.7 (1/2") (Flare)	ø15.88 (5/8") (Flare)
B	Liquid piping	ø6.35 (1/4") (Flare)	ø9.52 (3/8") (Flare)
C	Drain piping	VP25 (O.D.32)	
D	Hole for wiring		
F	Suspension bolts	(M10 or M8)	
G	Outside air opening for ducting	(Knock out)	
H1	Air outlet opening for ducting	ø125 (Knock out)	
H2		ø200 (Knock out)	

Notes: 1.) The model name label is attached to the control box lid.
2.) Suspension bolt pitch P1, P2 is adjustable by a pattern of the right table
3.) Section 1 (1) is provided on the panel T-PSAE-5BW-E and T-PSAE-5BB-E panel only

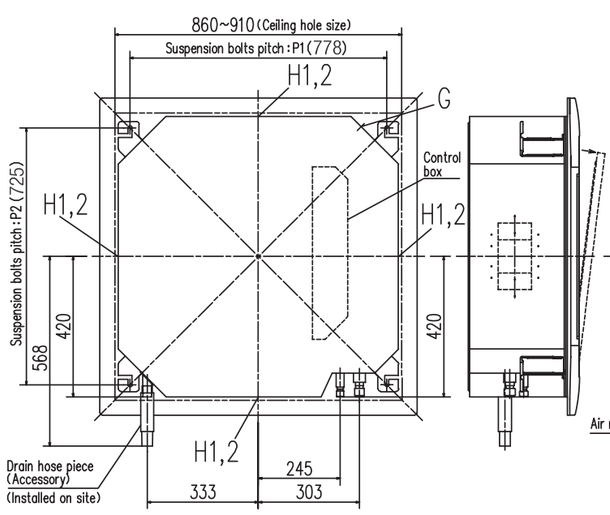
Suspension bolt pitch range

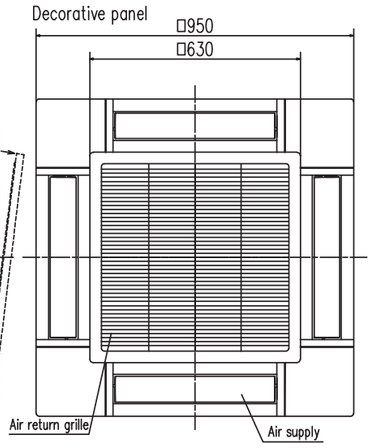
Symbol / Pattern	P1	P2
1	770	725~770
2	770~800	725

EXTERIOR DIMENSIONS

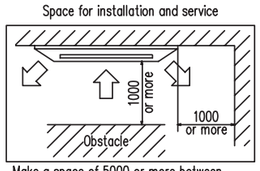
FDT SERIES

FDT100-140VH

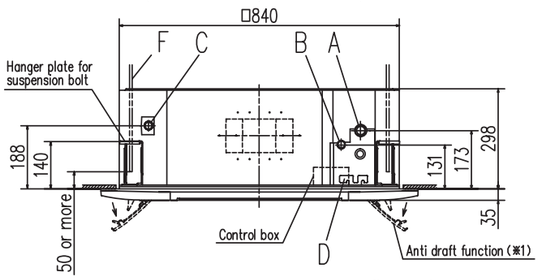


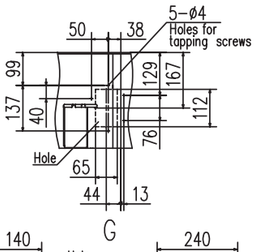


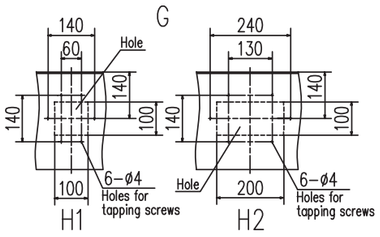
Symbol	Content	
A	Gas piping	ϕ15.88 (5/8") (Flare)
B	Liquid piping	ϕ9.52 (3/8") (Flare)
C	Drain piping	VP25 (O.D.32)
D	Hole for wiring	
F	Suspension bolts	(M10 or M8)
G	Outside air opening for ducting	(Knock out)
H1	Air outlet opening for ducting	ϕ125 (Knock out)
H2		ϕ200 (Knock out)

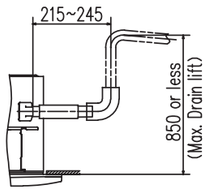


Make a space of 5000 or more between the units when installing more than one.









Notes: 1.) The model name label is attached to the control box lid.
2.) Suspension bolt pitch P1, P2 is adjustable by a pattern of the right table
3.) Section 1 (1) is provided on the panel T-PSAE-5BW-E and T-PSAE-5BB-E panel only

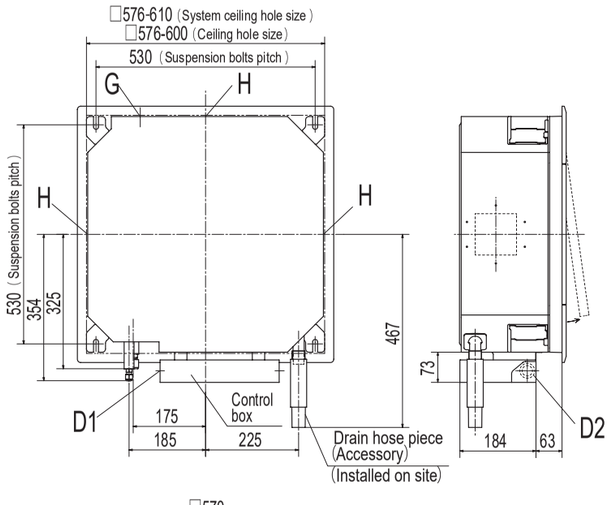
Suspension bolt pitch range

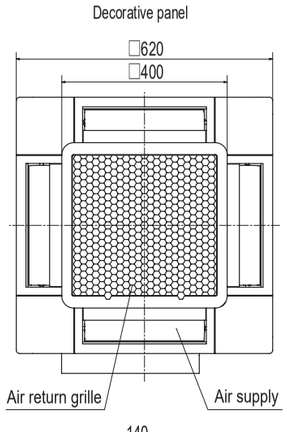
Symbol / Pattern	P1	P2
1	770	725~770
2	770~800	725

Unit:mm

FDTC SERIES

FDTC25-60VH



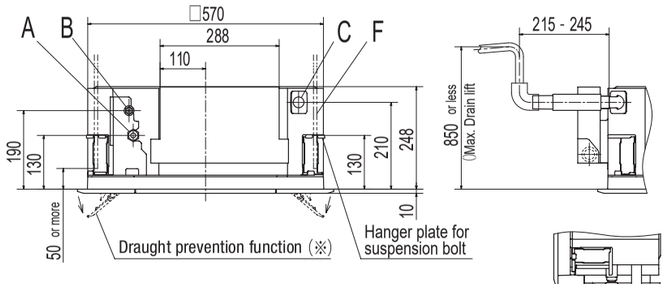


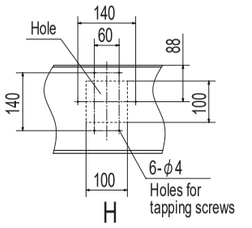
FDTC25-35VH1

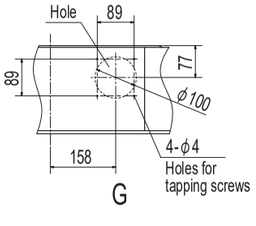
Symbol	Content	
A	Gas piping	ϕ9.52 (3/8") (Flare)
B	Liquid piping	ϕ6.35 (1/4") (Flare)
C	Drain piping	VP25 (O.D.32)
D1	Power source connection	
D2	Remote control code and signal wiring connection	
F	Suspension bolts	(M10 or M8)
G	Outside air opening for ducting	(Knock out)
H	Air outlet opening for ducting	ϕ125 (Knock out)
J	Inspection opening	450 x 450

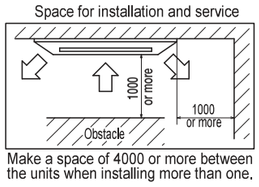
FDTC50-60VH

Symbol	Content	
A	Gas piping	ϕ12.7 (1/2") (Flare)
B	Liquid piping	ϕ6.35 (1/4") (Flare)
C	Drain piping	VP25 (O.D.32)
D1	Power source 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	ϕ125 (Knock out)
J	Inspection opening	450 x 450

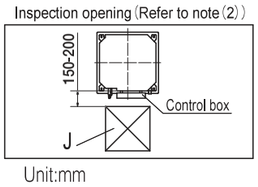








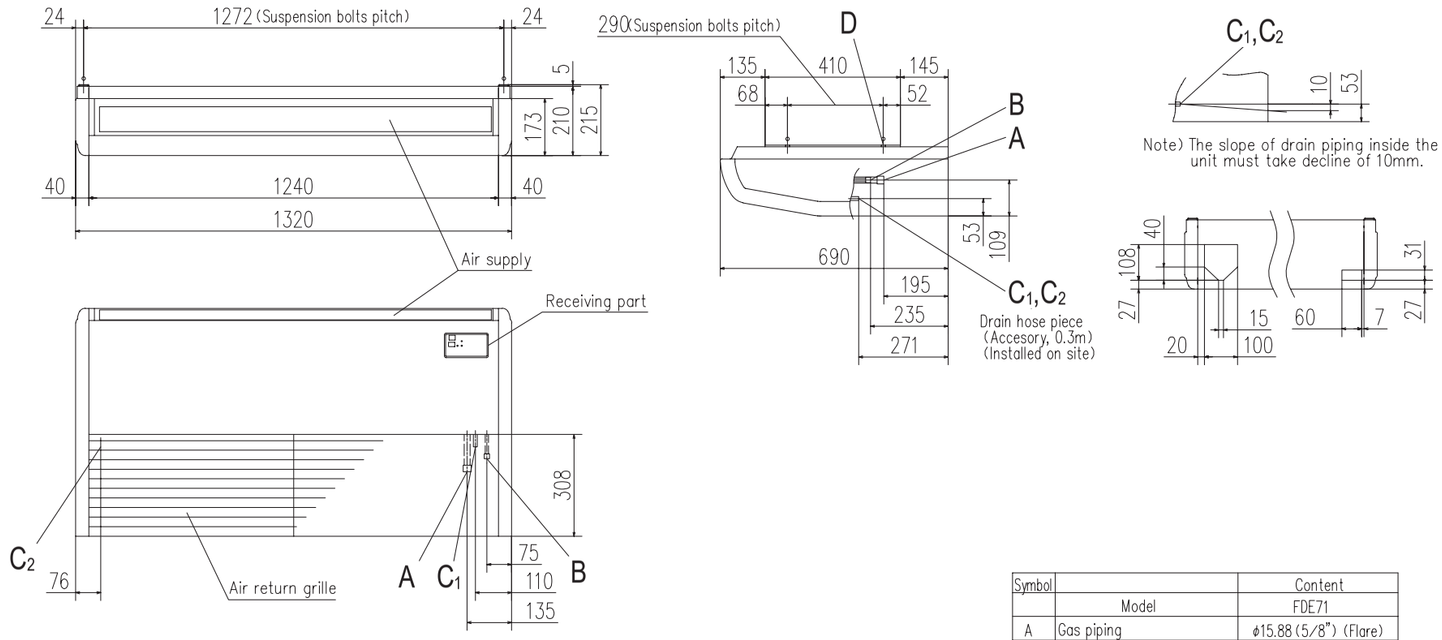
Make a space of 4000 or more between the units when installing more than one.



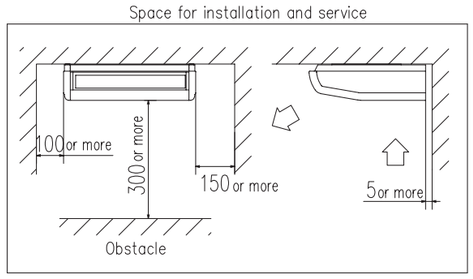
Unit:mm

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 in a ceiling other than a 2x2 grid ceiling, provide an inspection opening on the control box side
3.) Draft prevention function (※) is applicable on TC-PSAE-5AW-E and TC-PSAGE-5AW-E

FDE71VH

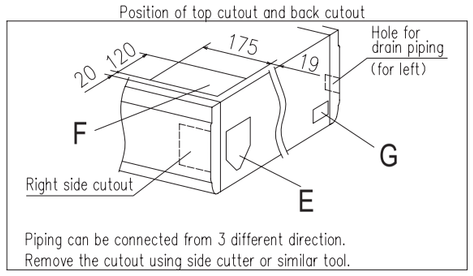


Space for installation and service



Make a space of 4500 or more between the units when installing more than one.

Position of top cutout and back cutout



Piping can be connected from 3 different direction.
Remove the cutout using side cutter or similar tool.

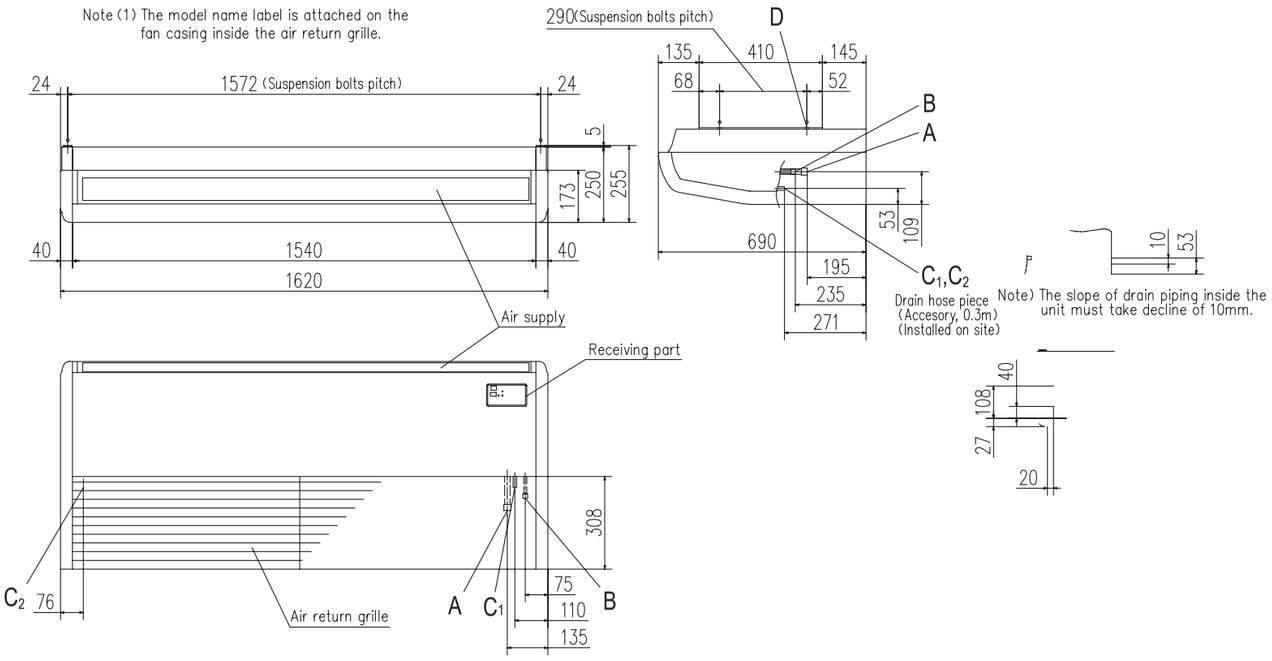
Symbol	Content	
	Model	FDE71
A	Gas piping	ϕ15.88 (5/8") (Flare)
B	Liquid piping	ϕ9.52 (3/8") (Flare)
C 1,2	Drain piping	VP20 (I.D.20, O.D.26)
D	Hole for suspension bolts	(M10 or M8)
E	Back cutout	PE cover
F	Top cutout	Plate cover
G	Hole for drain piping (for left back)	(Knock out)

Unit: mm

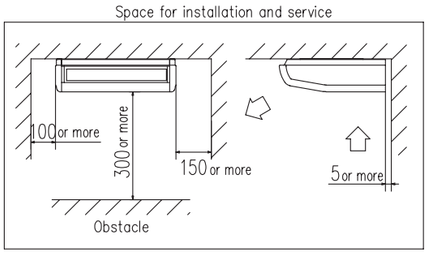
Note (1) The model name label is attached on the fan casing inside the air return grille.

FDE100-140VH

Note (1) The model name label is attached on the fan casing inside the air return grille.

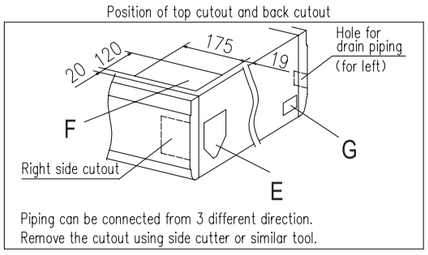


Space for installation and service



Make a space of 5000 or more between the units when installing more than one.

Position of top cutout and back cutout



Piping can be connected from 3 different direction.
Remove the cutout using side cutter or similar tool.

Symbol	Content	
A	Gas piping	ϕ15.88 (5/8") (Flare)
B	Liquid piping	ϕ9.52 (3/8") (Flare)
C 1,2	Drain piping	VP20 (I.D.20, O.D.26)
D	Hole for suspension bolt	(M10 or M8)
E	Back cutout	PE cover
F	Top cutout	Plate cover
G	Hole for drain piping (for left back)	(Knock out)

Unit: mm

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New Zealand Branch

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