



HEAT PUMPS

WE REALLY
CARE ABOUT AIR



CEILING SYSTEMS

HEATING AND COOLING SOLUTIONS





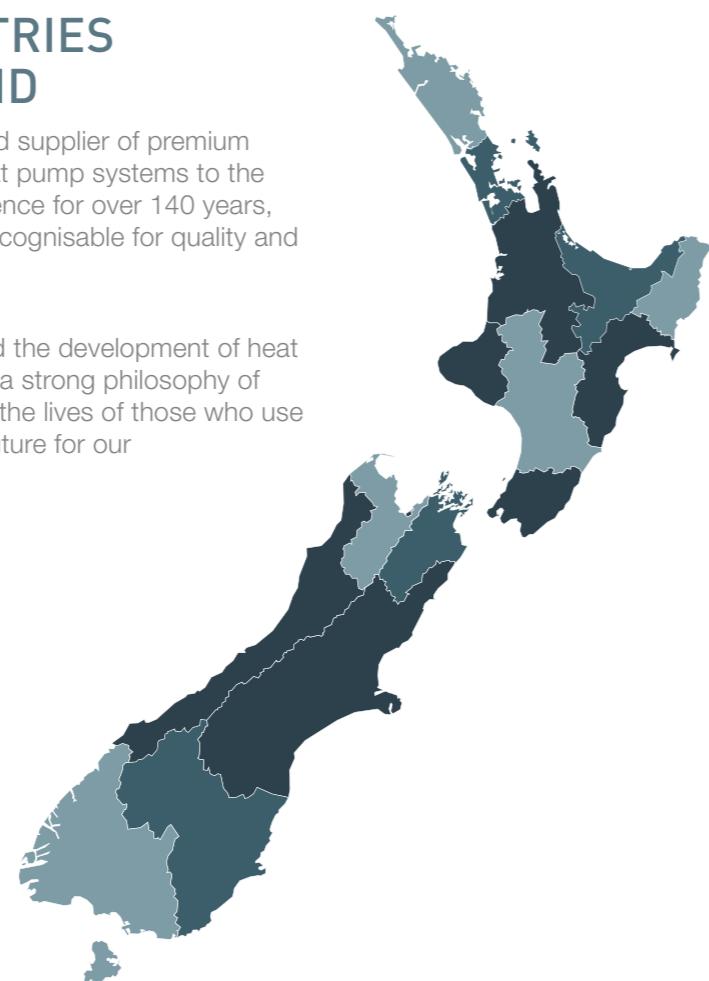
THE PEOPLE'S CHOICE OF HEAT PUMPS

Our customers voted for us! We're proud to have won Consumer's People's Choice Award for the heat pump category for two years in a row. 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 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 4 timer operations a day (max 28 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 preset amount of time between 30 and 240 minutes for your unit to operate 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

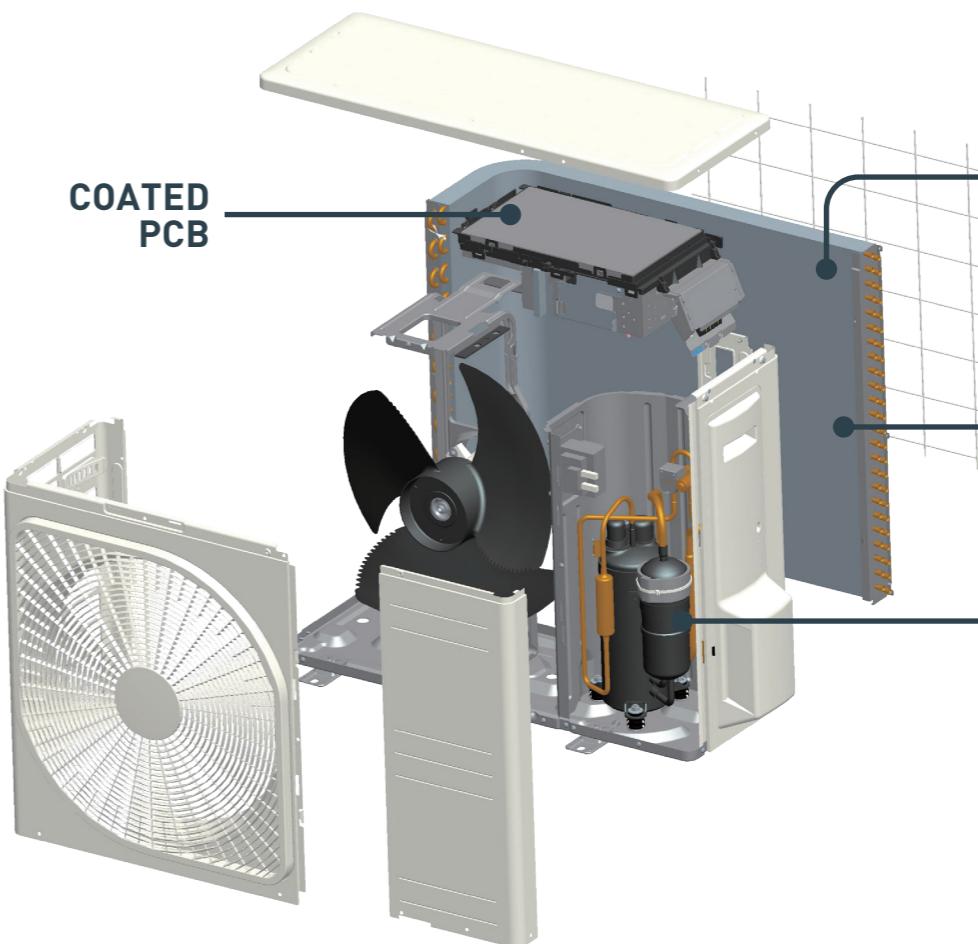
IMPROVED HEAT EXCHANGER

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

COATED PCB

To protect against humid weather a protective coating is applied to the circuit board in the outdoor unit, allowing it to withstand Australia'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 featuring hydrophobic properties to assist in reducing the corrosion rate of the aluminium section from harsh Australian Weather conditions.

*Available on FDCA outdoor units.

IMPROVED HEAT EXCHANGER

HIGH EFFICIENCY COMPRESSOR

HIGH EFFICIENCY COMPRESSOR

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

DC PAM INVERTER

The PAM control used in Mitsubishi Heavy Industries air conditioners 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 air conditioners 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.

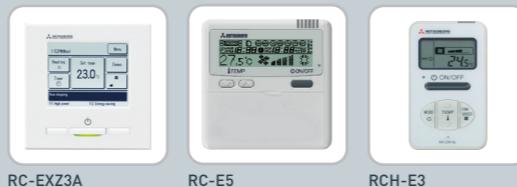
FDT Series



See pg. 9 for full list of features and functions

Control Solutions

Wired



Wireless



Motion Sensor



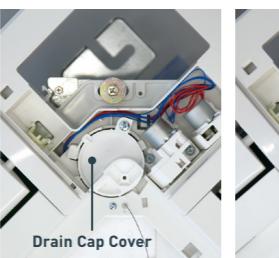
Four Way Ceiling Cassette 5.6kW | 7.1kW | 10.0kW | 12.1kW | 12.5kW | 14.0kW

EASY MAINTENANCE

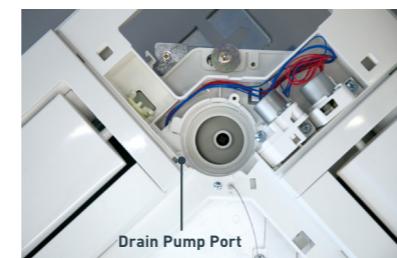
Easily check the drain pan by simply removing the corner panel.



Remove cover lid



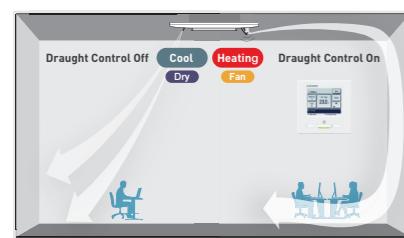
Remove drain cap cover and check the condition. To clean, firstly remove the rubber plug to drain water before removing the drain cap.



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.

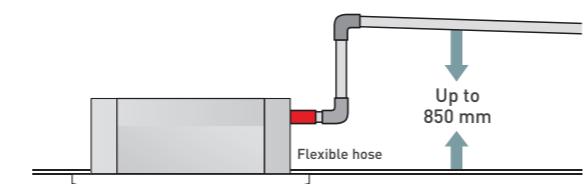


BUILT-IN DRAIN PUMP

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

INDIVIDUAL LOUVRE CONTROL

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



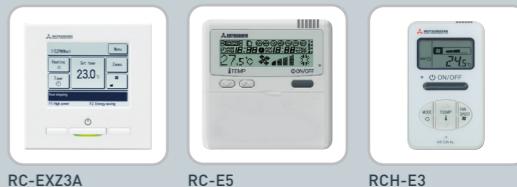
FDTC Series



See pg. 9 for full list of features and functions

Control Solutions

Wired



Wireless



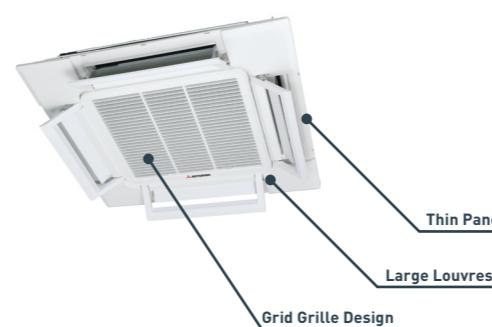
Motion Sensor



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

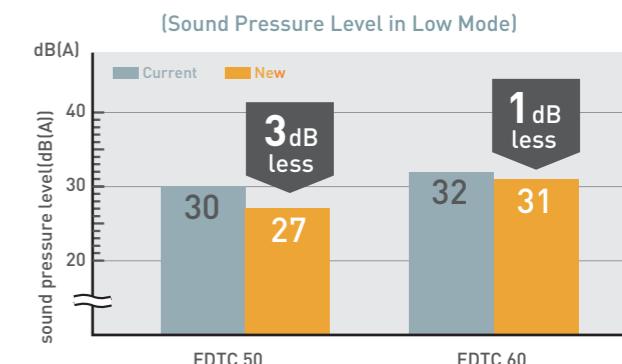
FLAT PANEL AND GRILL DESIGN

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.



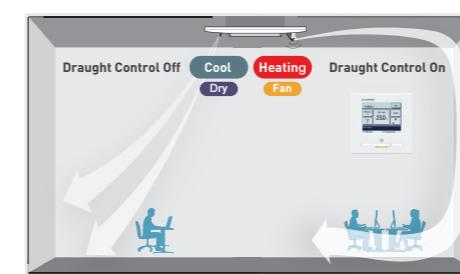
QUIETER OPERATION

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



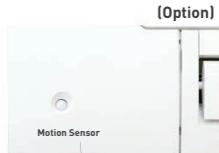
DRAUGHT PREVENTION PANEL

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.





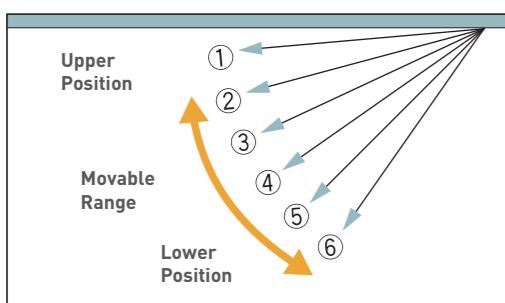
See pg. 9 for full list of features and functions

Ceiling Suspended 7.1kW | 10.0kW | 12.1kW | 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



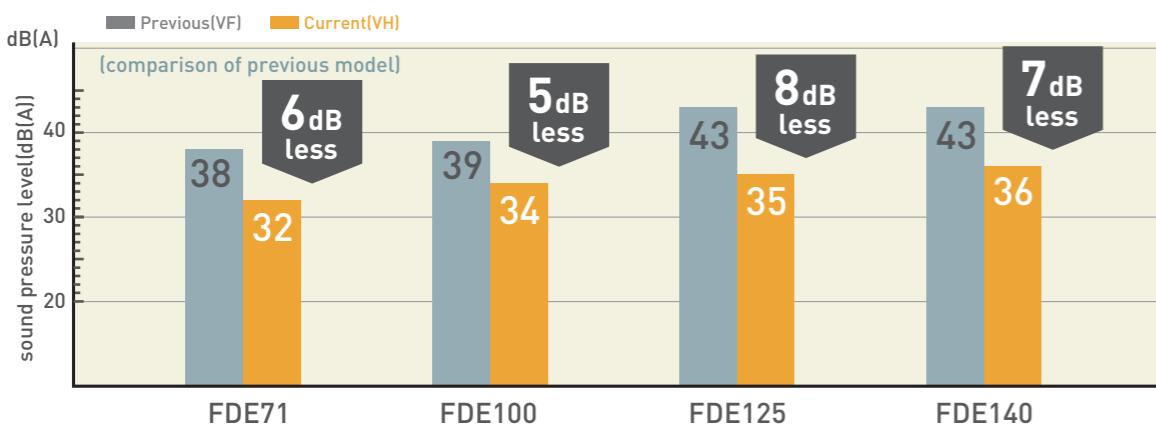
SLIM LIGHTER DESIGN

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.	●	●	●
CLEAN 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*	Allows 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.	●	●	●
	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.	●	●	●
OPERATION	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.

Control Solutions

MH-RC-WIFI-1B WIRED CONTROLLERS



WIRELESS KITS AND REMOTE CONTROLS

KEY FEATURES

- Hi Power Mode
- Energy Saving Mode
- Home Leave Mode

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.

WI-FI SOLUTION



Control Your Air Your Way

MH-RC-WIFI-1B

- CONTROL YOUR AIR CONDITIONER USING YOUR SMARTPHONE, TABLET OR DESKTOP VIA EASY TO USE AC CLOUD CONTROL APP*.
- CONTROL YOUR AIR CONDITIONER USING VOICE COMMAND VIA YOUR GOOGLE OR AMAZON SMART DEVICE**.
- SET UP 'FAVOURITE' SETTINGS 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**.

*Requires MH-RC-WIFI-1B Wi-Fi adaptor (sold separately)

**In conjunction with IFTTT and other apps (must be downloaded separately).

Note: Some additional functions may not be available via AC Cloud Control app. The system's On/Off timer, weekly timer and sleep timer are disabled if a Wi-Fi accessory is connected. Similar functions can be set via the AC Cloud App.

AC Cloud Control



GET IT ON
Google Play



Download on the
App Store

Compatible with



Amazon Alexa



Google Assistant

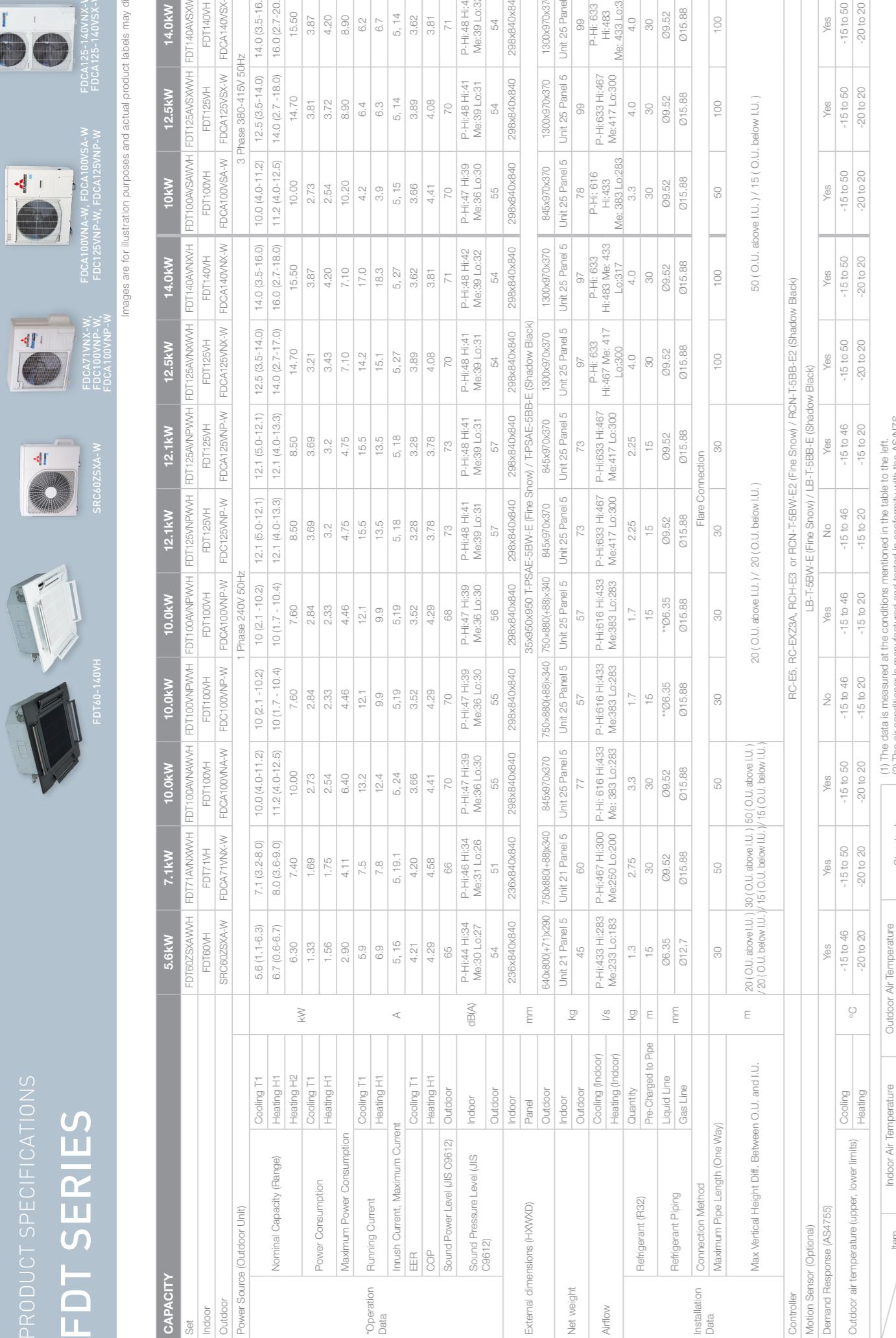


Apple Siri

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.

FDT SERIES PRODUCT SPECIFICATIONS

FDT SERIES



PRODUCT SPECIFICATIONS

FDE SERIES

CAPACITY	7.1kW	10.0kW	10.0kW	10.0kW	12.1kW	12.5kW	14.0kW	10kW	12.5kW	14.0kW	14.0kW
Set	FDE71AV/NXWH	FDE100AV/NAWH	FDE100NP/WH	FDE100AV/NAWH	FDE125AV/NAWH	FDE125AV/NAWH	FDE140AV/NAWH	FDE100AV/SWWH	FDE125AV/SWWH	FDE140AV/SWWH	FDE140V/SWWH
Indoor	FDE71VH	FDE100VH	FDE100VH	FDE100VH	FDE125VH	FDE125VH	FDE140VH	FDE100VH	FDE125VH	FDE140VH	FDE140VH
Outdoor	FDC471VNX-W	FDC4100VNA-W	FDC4100VNP-W	FDC4100VNP-W	FDC4125VN-W	FDC4125VN-W	FDC4140VN-W	FDC4100VSA-W	FDC4125VSA-W	FDC4140VSA-W	FDC4140VNP-W
Power Source (Outdoor Unit)	Nominal Capacity (Range)	Cooling T1 Heating H1	7.1 (3.2~8.0) 8.0 (3.6~9.0)	10.0 (4.0~11.2) 11.2 (4.0~12.5)	10 (2.1~10.2) 10 (1.7~10.4)	12.1 (5.0~12.1) 12.1 (4.0~13.3)	12.1 (5.0~12.1) 12.1 (4.0~13.3)	14.0 (3.5~14.0) 16.0 (2.7~16.0)	10.0 (4.0~11.2) 11.2 (4.0~12.5)	12.5 (3.5~14.0) 14.0 (2.7~18.0)	14.0 (3.5~16.0) 16.0 (2.7~20.0)
	Power Consumption	Cooling T1 Heating H1	1.87	2.85	3.00	3.88	3.88	4.08	2.85	3.77	4.08
	Maximum Power Consumption	4.11	6.40	4.46	4.46	4.75	4.75	4.41	2.54	3.74	4.41
*Operation Data	Running Current	Cooling T1 Heating H1	A	7.40	10.00	7.60	7.90	14.90	15.50	10.00	14.90
	Inrush Current, Maximum Current			1.87	2.85	3.00	3.88	3.88	4.08	2.85	3.77
EER		Cooling T1 Heating H1		1.87	2.54	2.36	3.30	3.30	3.74	2.54	3.74
CoP				4.11	6.40	4.46	4.75	4.75	7.10	10.20	8.90
Sound Power Level (JIS C9612)	dB(A)	66	70	68	68	73	73	68	69	68	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:43 Me:38 Lo:34	P-Hi:48 Hi:45 Me: P-Hi:48 Hi:45 Me: 40 Lo:35	P-Hi:48 Hi:45 Me:40 Lo:35	P-Hi:48 Hi:45 Me:40 Lo:35	P-Hi:48 Hi:45 Me:40 Lo:35	P-Hi:48 Hi:45 Me:40 Lo:35	P-Hi:48 Hi:45 Me:40 Lo:35
External dimensions (HxWxD)	Indoor	51	55	54	54	57	57	54	55	54	54
	Outdoor	mm	210x1320x690	250x1620x690	250x1620x690	250x1620x690	250x1620x690	250x1620x690	250x1620x690	250x1620x690	250x1620x690
Net weight	Indoor	kg	33	43	43	43	43	43	43	43	43
	Outdoor	kg	60	77	57	57	73	73	97	78	99
Airflow	Cooling (Indoor)	l/s	P-Hi:33 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:433 Me:350 Lo:275	P-Hi:533 Hi:433 Me:383 Lo:283	P-Hi:533 Hi:433 Me:383 Lo:283	P-Hi:533 Hi:433 Me:383 Lo:275	P-Hi:533 Hi:433 Me:383 Lo:283	P-Hi:533 Hi:433 Me:383 Lo:283
	Heating (Indoor)	Quantity	kg	2.75	3.3	1.7	1.7	2.25	4.0	3.3	4.0
	Pre-Charged Pipe	m	30	30	15	15	15	30	30	30	30
	Liquid Line	mm	09.52	09.52	**06.35	**06.35	09.52	09.52	09.52	09.52	09.52
Installation Data	Gas Line	mm	015.88	015.88	015.88	015.88	015.88	015.88	015.88	015.88	015.88
	Connection Method										
	Maximum Pipe Length (One Way)		50	50	30	30	30	30	100	100	100
	Max Vertical Height Diff. Between O.U. and I.U.	m	30 (O.U. above 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	Motion Sensor (Optional)		Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes
	Demand Response (A34755)		-15 to 50	-15 to 50	-15 to 46	-15 to 46	-15 to 46	-15 to 50	-15 to 50	-15 to 50	-15 to 50
	Outdoor air temperature (upper, lower limits)	Cooling	°C	-20 to 20	-20 to 20	-15 to 20	-15 to 20	-15 to 20	-20 to 20	-20 to 20	-20 to 20
		Heating									

*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 Q9.32 -> Q6.35 is included in the outdoor unit as accessory for FDC100VNP-W.

*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.
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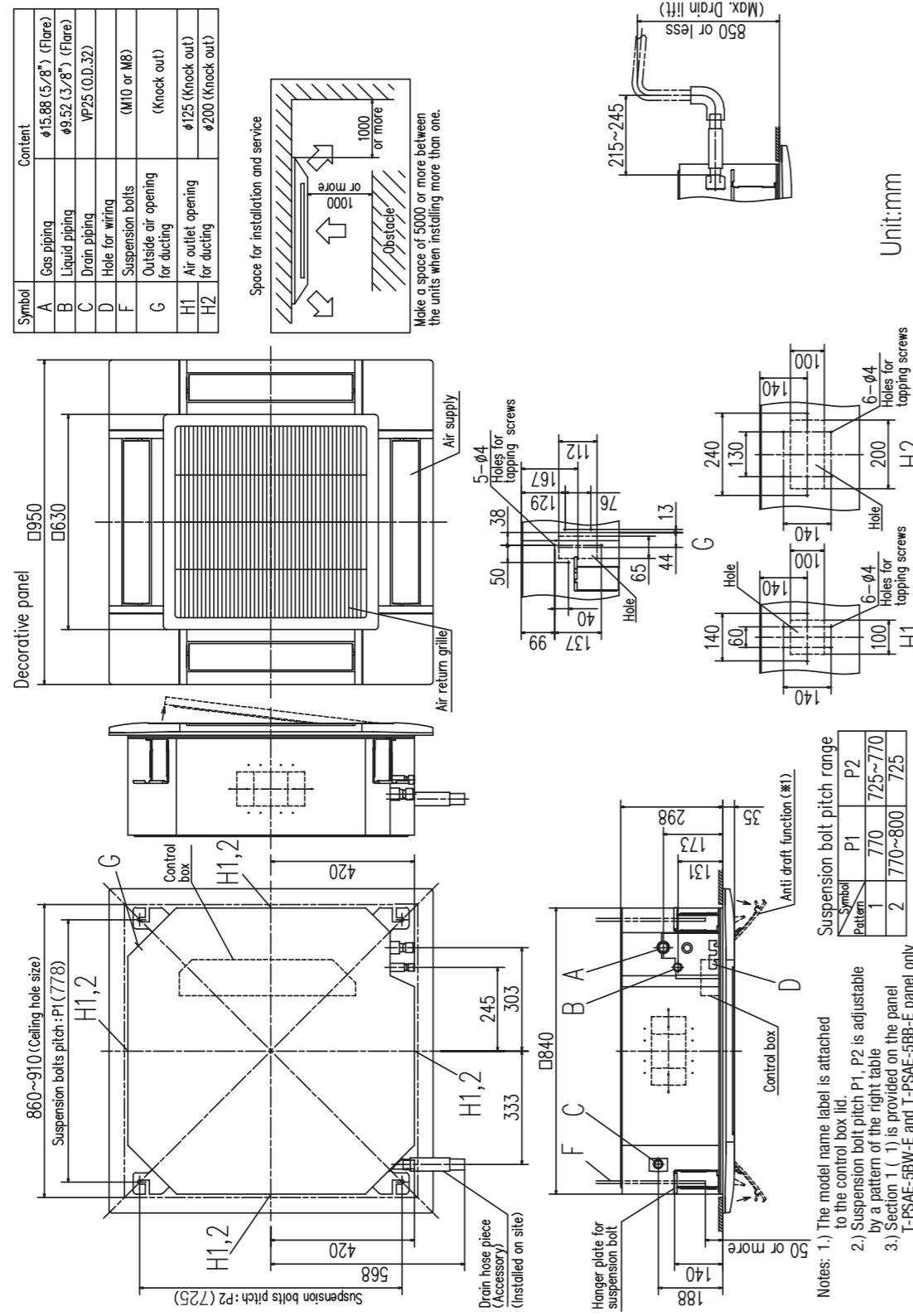
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EXTERIOR DIMENSIONS

FDT SERIES

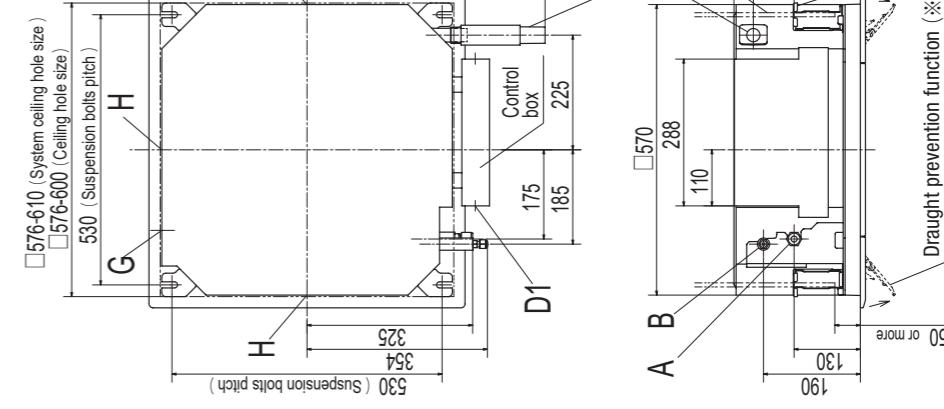
FDT100-140VH



EXTERIOR DIMENSIONS

FDT C SERIES

FDTC25-60VH



FDTC25-35VH1

Symbol	Content
A	Gas piping
B	Liquid piping
C	Drain piping
D	Hole for wiring
F	Suspension bolts
G	Outside air opening for ducting (Knock out)
H1	Air outlet opening for ducting (Knock out)
H2	Air outlet opening for ducting (Knock out)

Symbol	Content
A	Gas piping
B	Liquid piping
C	Drain piping
D1	Power source connection
D2	Remote control code and signal wiring connection
F	Suspension bolts
G	Outside air opening for ducting (Knock out)
H	Air outlet opening for ducting (Knock out)
J	Inspection opening

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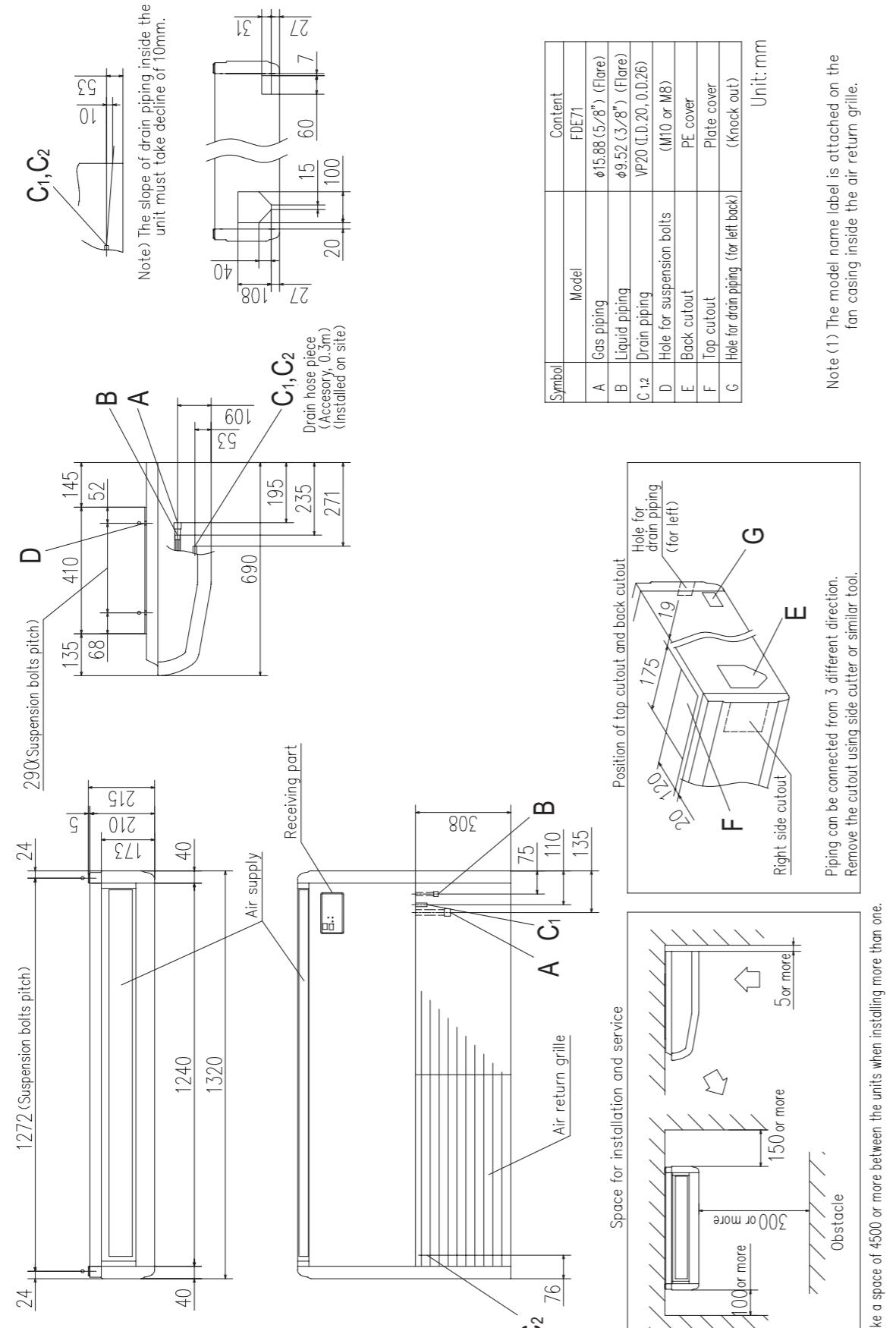
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Symbol	Content
A	Gas piping
B</td	

EXTERIOR DIMENSIONS

FDE SERIES

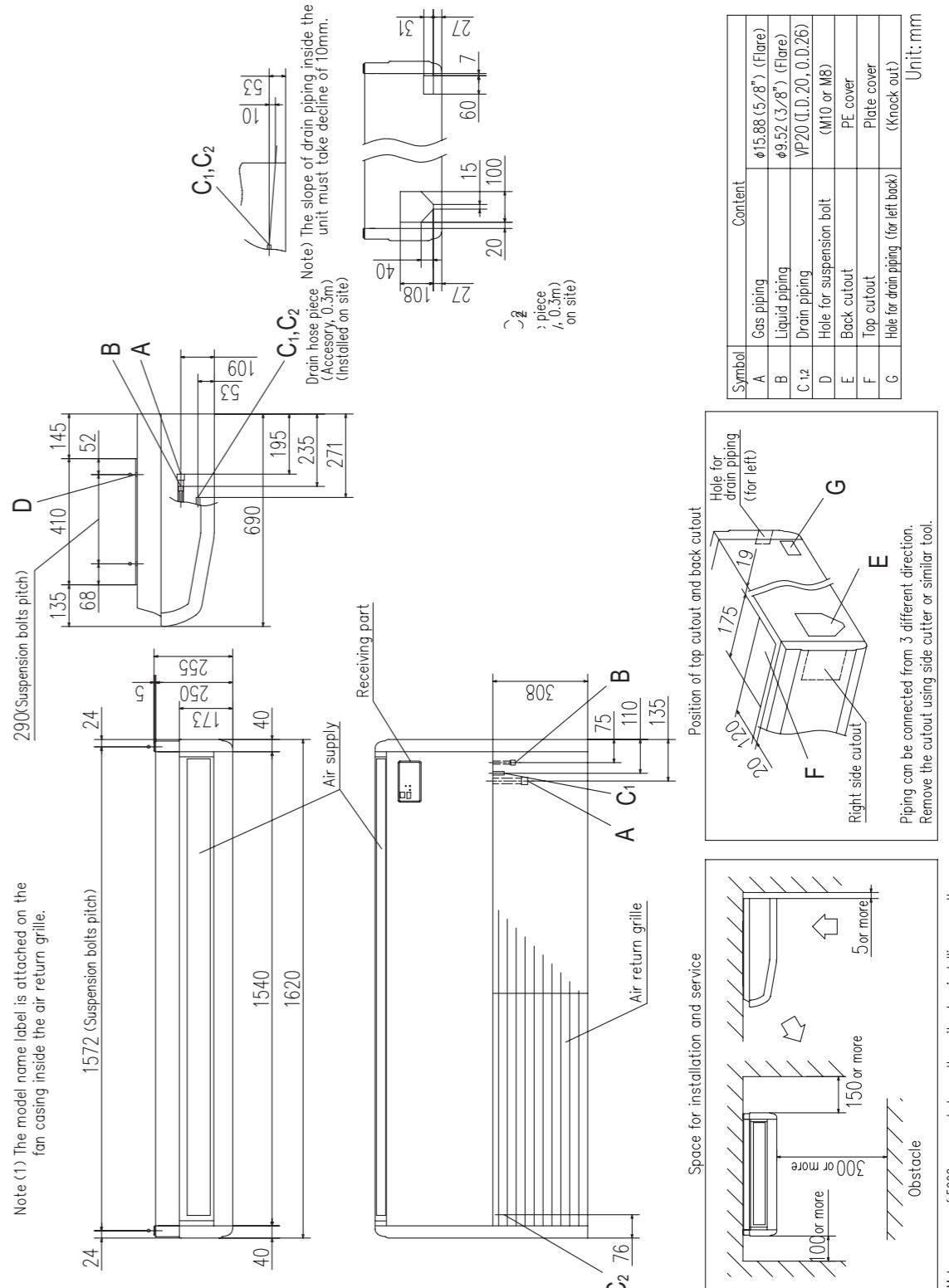
FDE71VH



EXTERIOR DIMENSIONS

FDE SERIES

FDE100-140VH



mhiheatpumps.co.nz G.S.T. 105-673-620

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Mitsubishi Heavy Industries Air-conditioners Australia, Pty. Ltd.
New Zealand Branch

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