MITSUBISHI HEAVY INDUSTRIES

AIR CONDITIONING

HEATING AND COOLING SOLUTIONS

CEILING SYSTEMS

AUSTRALIA'S BEST AIR-CONDITIONER BRAND

We're proud to have been rated the best air-conditioner brand in the 2023 Finder Awards - that's the third year in a row! These awards recognise brand sentiment from customer feedback on different retail product categories.

AUSTRALIA'S BEST AIR CONDITIONER BRAND

We're proud to have been recognised by CHOICE®· as Australia's best brand of air conditioner six years in a row - something no other air conditioner brand has done before. The award is based on test reviews of over 200 reverse cycle air conditioners and the results of the annual reliability and satisfaction survey completed by CHOICE® members.

AUSTRALIA'S MOST SATISFIED CUSTOMERS

We're also proud to have been named by Canstar Blue as having the most satisfied customers of any air conditioner brand for the last five years. Canstar Blue's annual air conditioner review rates air conditioning brands on functionality and features, noise, ease of use, reliability, value for money and overall consumer satisfaction.

MITSUBISHI HEAVY INDUSTRIES AIR CONDITIONERS AUSTRALIA

Mitsubishi Heavy Industries Air-Conditioners Australia (MHIAA) is one of Australia's leading suppliers of premium residential and commercial air conditioning systems. 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 air conditioning 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 Mitsubishi Heavy Industries products, comprehensive warranties provide you with peace of mind and carry our commitment to quality.

5 YEARS PARTS AND LABOUR WARRANTY

Mitsubishi Heavy Industries Air conditioners Australia focuses solely on manufacturing high performance air conditioners for the Australian market. All our systems are of the highest quality and are backed by a full 5 year parts and labour warranty.

EXCEEDING ENERGY PERFORMANCE STANDARDS

To comply with Australian standards and deliver the most efficient solutions possible to our customers, all Mitsubishi Heavy Industries Air conditioners Australia 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 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 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 that assist in preventing the hydrophilicity effect and assists in reducing the corrosion rate of the aluminium section from harsh Australian weather conditions.

COATED PCB

BLUE FIN TECHNOLOGY

*Available on FDCA outdoor units.

IMPROVED HEAT EXCHANGER

HIGH EFFICIENCY COMPRESSOR
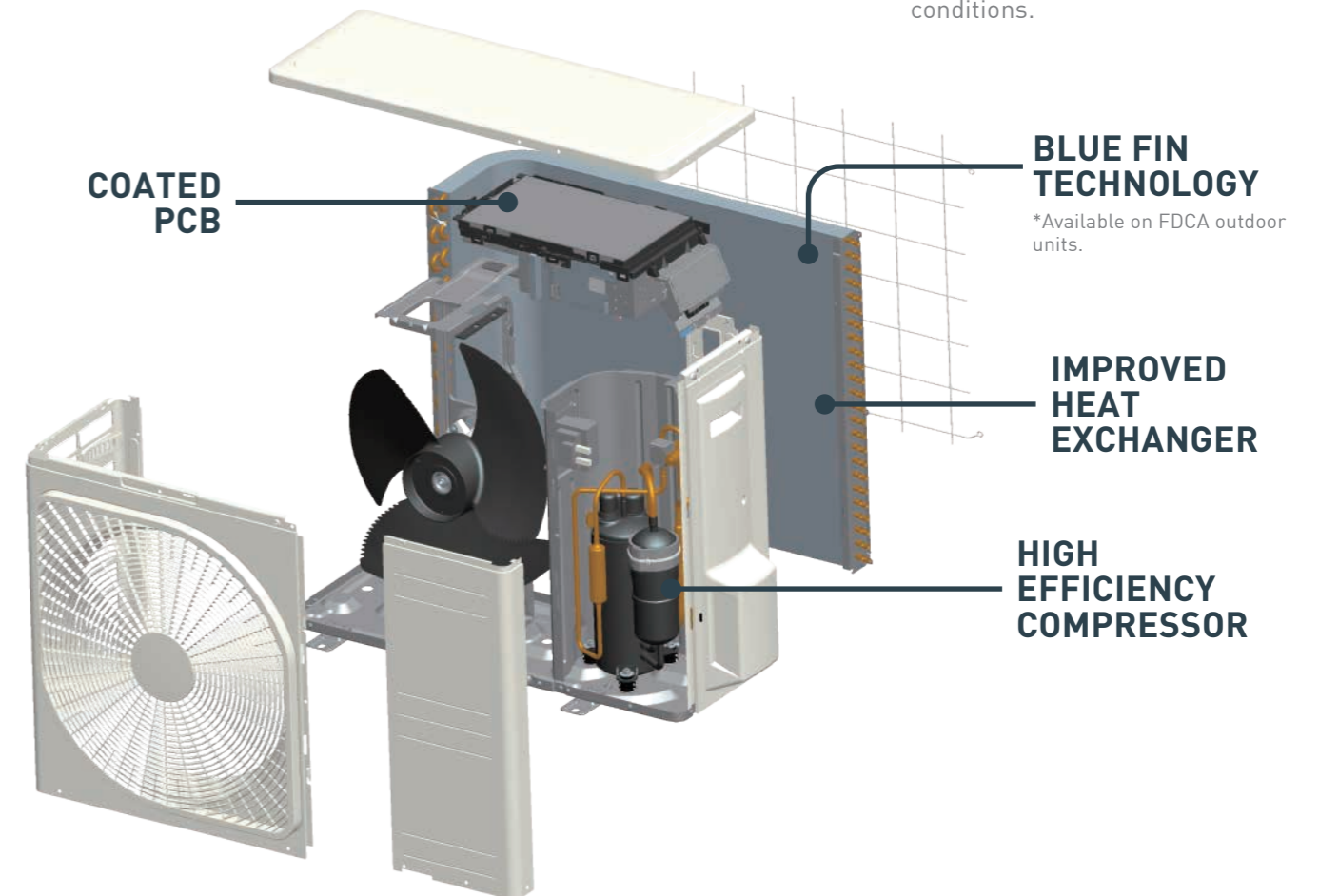
HIGH EFFICIENCY COMPRESSOR

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

FINE SNOW
(T-PSAE-5BW-E)

SHADOW BLACK
(T-PSAE-5BB-E)

R32

Control Solutions

Wired

RC-EXZ3A   RC-E5   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)

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
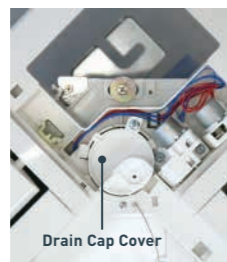
Drain Cap Cover

Drain Cap

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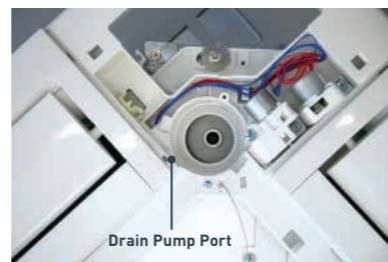
Drain Pump Port

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.

Draught Control Off   Cool   Heating   Draught Control On
Dry   Fan

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.

Up to 850 mm

Flexible hose

FDTC Series

HONEYCOMB PANEL
(TC-PSAE-5AW-E)

GRID PANEL
(TC-PSAGE-5AW-E)

R32

Control Solutions

Wired

RC-EXZ3A   RC-E5   RCH-E3

Wireless

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

Motion Sensor

LB-TC-5W-E
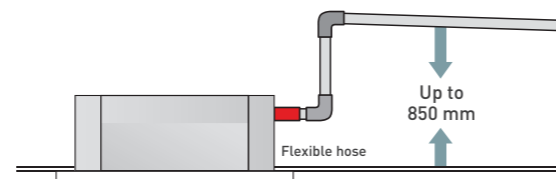
Compact Four Way Ceiling Cassette
2.5kW | 3.5kW | 5.0kW | 5.6kW

GOOD DESIGN AWARD® GOLD 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.

New Grille Design

Thin Panel

Large Louvres

Unique Grille Design

DRAUGHT PREVENTION PANEL

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

Draught Control Off   Cool   Heating   Draught Control On
Dry   Fan
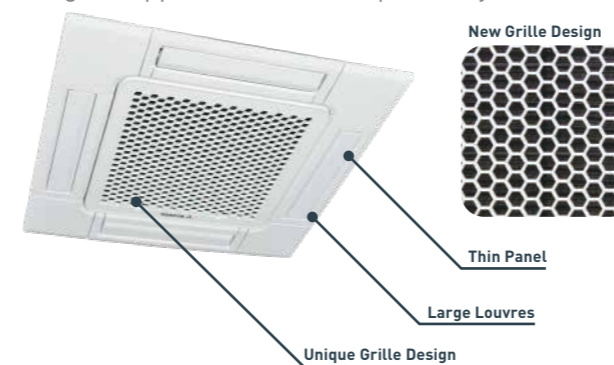
QUIETER OPERATION

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

(Sound Pressure Level in Low Mode)

dB(A)

Current   New

sound pressure level(dB(A))

3 dB less   **1 dB less**

	FDTC 50	FDTC 60
Current	30	32
New	27	31
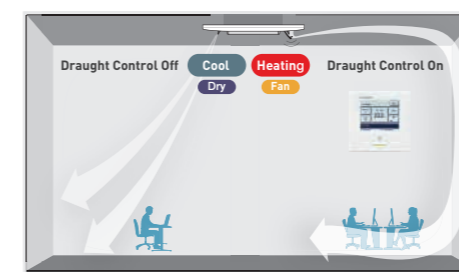
MOTION SENSOR

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.

(Option)
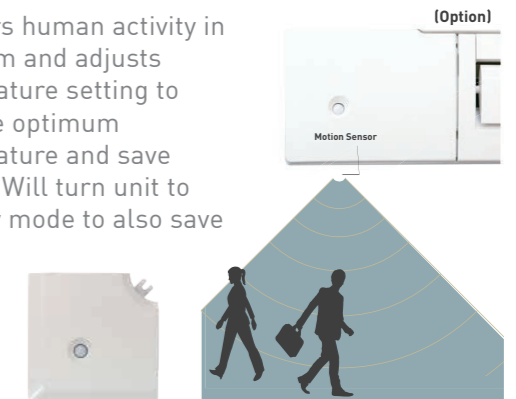
Motion Sensor

FDE Series
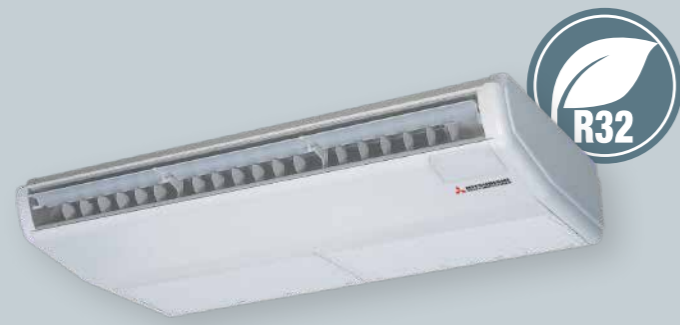
Control Solutions

Wired

RC-EXZ3A | RC-E5 | RCH-E3

Wireless

RCN-E-E3

Motion Sensor

LB-E

R32

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

Upper Position
①②③④⑤⑥
Movable Range
Lower Position
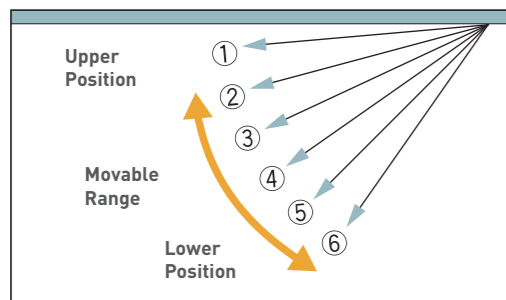
SLIM LIGHTER DESIGN

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.

dB(A)

■ Previous(VF) ■ Current(VH)

(comparison of previous model)

sound pressure level(dB(A))

	FDE71	FDE100	FDE125	FDE140
Previous	38	39	43	43
Current	32	34	35	36
Difference	6dB less	5dB less	8dB less	7dB less
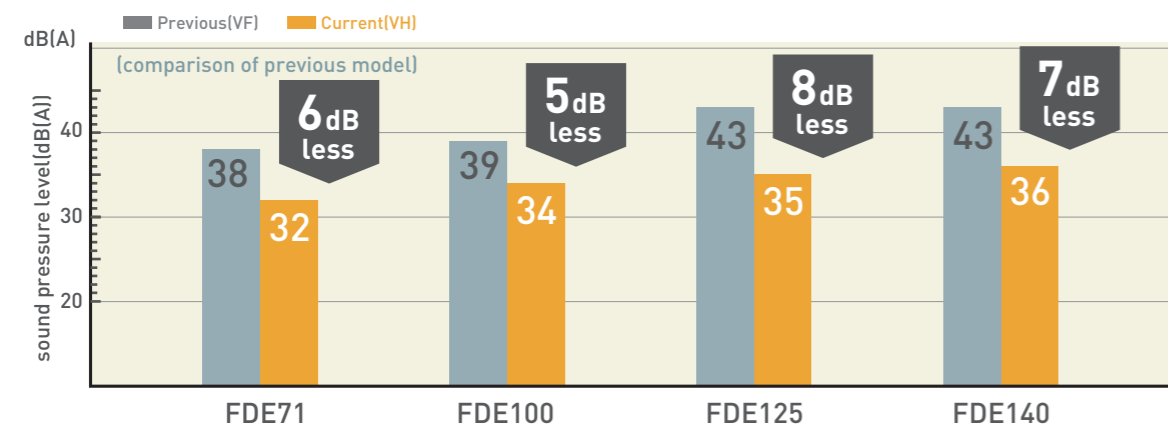
Features and Functions

| 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*	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.	●	●	●
	Hi Power Operation*	Provides 15mins of boosted heating or cooling power before returning to normal operation. Perfect for when first using the unit.	●	●	●
OPERATION	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).

RC-E5

- Easy to use controller with LCD Display.
- Control the set temperature, operation mode and fan speed.
- Access timer and scheduling functions.
- Access service, maintenance and technical data.

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.

WI-FI SOLUTION

Wi-Fi Control   Voice Command Control

Control Your Air Your Way

- 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' 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**.

*Requires MH-RC-WI-FI-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.

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

FDT SERIES — PRODUCT SPECIFICATIONS

CAPACITY	Unit	5.6kW	7.1kW	10.0kW	10.0kW	12.1kW	12.5kW	14.0kW	14.0kW	10kW	12.5kW	14.0kW
Set		FDT60ZSAWVH	FDT71A/NXWVH	FDT100AVAWWVH	FDT100A/NPWVH	FDT125AVNPWVH	FDT125AVNXWVH	FDT140AVMXVH	FDT140AVSXWVH	FDT100AVSAWVH	FDT125AVSXWVH	FDT140AVSXWVH
Indoor		FDT60VH	FDT71VH	FDT100VH	FDT100VH	FDT125VH	FDT125VH	FDT140VH	FDT140VH	FDT100VH	FDT125VH	FDT140VH
Outdoor		SRC60ZSXA-W	FDCA71VNX-W	FDCA100VNA-W	FDCA100VNP-W	FDCA125VNP-W	FDCA125VNX-W	FDCA140VNX-W	FDCA140VSX-W	FDCA100VSA-W	FDCA125VSX-W	FDCA140VSX-W
Power Source (Outdoor Unit)		1 Phase 240V 50Hz								3 Phase 380-415V 50Hz		
Nominal Capacity (Range) Cooling T1	kW	5.6 (1.1-6.3)	7.1 (3.2-8.0)	10.0 (4.0-11.2)	10.0 (4.0-11.2)	12.1 (5.0-12.1)	12.5 (3.5-14.0)	14.0 (3.5-16.0)	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	kW	6.7 (0.6-6.7)	8.0 (3.6-9.0)	11.2 (4.0-12.5)	11.2 (4.0-12.5)	12.1 (1.7-10.4)	14.0 (2.7-17.0)	16.0 (2.7-18.0)	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	kW	6.30	7.40	10.00	10.00	7.60	14.70	15.50	15.50	10.00	14.70	15.50
Power Consumption Cooling T1	kW	1.33	1.69	2.73	2.73	2.84	3.21	3.87	3.87	2.73	3.81	3.87
Heating H1	kW	1.56	1.75	2.54	2.54	2.33	3.43	4.20	4.20	2.54	3.72	4.20
Maximum Power Consumption	kW	2.90	4.11	6.40	6.40	4.46	7.10	7.10	7.10	10.20	8.90	8.90
*Operation Data — Running Current Cooling T1	A	5.9	7.5	13.2	13.2	12.1	14.2	17.0	17.0	4.2	6.4	6.2
Heating H1	A	6.9	7.8	12.4	12.4	9.9	15.1	18.3	18.3	3.9	6.3	6.7
Inrush Current, Maximum Current	A	5, 15	5, 19.1	5, 24	5, 24	5, 19	5, 27	5, 27	5, 27	5, 15	5, 14	5, 14
EER Cooling T1		4.21	4.20	3.66	3.66	3.52	3.89	3.62	3.62	3.66	3.89	3.62
COP Heating H1		4.29	4.58	4.41	4.41	4.29	4.08	3.81	3.81	4.41	4.08	3.81
Sound Power Level (JIS C9612) Outdoor	dB(A)	65	66	69	69	68	68	69	69	69	68	69
Sound Pressure Level (JIS C9612) Indoor	dB(A)	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: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	dB(A)	53	51	54	54	56	53	54	54	54	53	54
External dimensions (HxWxD) Indoor	mm	236x840x840	236x840x840	298x840x840	298x840x840	298x840x840	298x840x840	298x840x840	298x840x840	298x840x840	298x840x840	298x840x840
Outdoor	mm	640x800(+71)x290	750x880(+88)x340	845x970x370	750x880(+88)x340	845x970x370	845x970x370	1300x970x370	1300x970x370	845x970x370	1300x970x370	1300x970x370
Panel		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	Unit 25 Panel 5
Net weight Indoor	kg	45	60	77	77	73	97	97	99	78	99	99
Outdoor	kg	P-Hi:433 Hi:283 Me:233 Lo:183	P-Hi:467 Hi:300 Me:250 Lo:200	P-Hi:467 Hi:300 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: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
Airflow Cooling (Indoor)	l/s	1.3	2.75	3.3	3.3	1.7	2.25	4.0	4.0	3.3	4.0	4.0
Heating (Indoor)	l/s	15	30	30	30	15	15	30	30	30	30	30
Refrigerant (R32) Quantity	kg	Ø6.35	Ø9.52	Ø9.52	Ø9.52	**Ø6.35	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52
Refrigerant Piping Liquid Line	m	Ø12.7	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88
Connection Method	mm					Flare Connection						
Installation Data — Maximum Pipe Length (One Way)		30	50	50	30	30	100	100	100	50	100	100
Max Vertical Height Diff. Between O.U. and I.U.	m	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.)						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)						LB-T-5BW-E (Fine Snow) / LB-T-5BB-E (Shadow Black)				
Motion Sensor (Optional)												
Demand Response (AS4755)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Outdoor air temperature (upper, lower limits) Cooling	°C	-15 to 50	-15 to 50	-15 to 50	-15 to 50	-15 to 50	-15 to 50	-15 to 50	-15 to 50	-15 to 50	-15 to 50	-15 to 50
Heating	°C	-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	-20 to 20

Notes:
(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 -> Ø6.35 is included in the outdoor unit as accessory for FDCA100VNP-W

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

*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.

Set models (outdoor unit callouts): FDCA125-140VNX-W, FDCA125-140VSX-W; FDCA100VNA-W, FDCA100VSA-W; FDCA125VNP-W; FDCA71VNX-W, FDCA100VNP-W; SRC60ZSXA-W; FDT60-140VH

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

FDTC SERIES — PRODUCT SPECIFICATIONS

CAPACITY	Unit	2.5kW	3.5kW	5.0kW	5.6kW
Set		FDTC25ZSAWVH1	FDTC35ZSAWVH1	FDTC50ZSAWVH1	FDTC60ZSAWVH
Indoor		FDTC25VH1	FDTC35VH1	FDTC50VH	FDTC60VH
Outdoor		SRC25ZSXA-W	SRC35ZSA-W	SRC50ZSXA-W	SRC60ZSXA-W
Power Source (Outdoor Unit)		1 Phase 240V 50Hz			
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	kW	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	kW	3.45	3.95	4.80	5.80
Power Consumption Cooling T1	kW	0.54 (0.18-0.89)	0.91 (0.18-1.37)	1.40	1.73
Heating H1	kW	0.77 (0.18-1.36)	1.08 (0.19-1.33)	1.53	2.14
Maximum Power Consumption	kW	1.65	1.65	2.90	2.90
*Operation Data — Running Current Cooling T1	A	2.7	4.1	6.2	7.6
Heating H1	A	3.6	4.8	6.7	9.4
Inrush Current, Maximum Current	A	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	dB(A)	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:31	P-Hi:46 Hi:42 Me:38 Lo:31
Outdoor	dB(A)	47	50	52	53
External dimensions (HxWxD) Indoor	mm	248x570x570	248x570x570	248x570x570	248x570x570
Outdoor	mm	540x780(+62)x290	540x780(+62)x290	640x800(+71)x290	640x800(+71)x290
Panel		Unit 13.5 Panel 2.5	Unit 13.5 Panel 2.5	Unit 14 Panel 2.5	Unit 14 Panel 2.5
				TC-PSAGE-5AW-E (Grid)	
			10X6/20X6/20 TC-PSAE-5AW-E (Honeycomb) / TC-PSAGE-5AW-E (Grid)		
Net weight Indoor	kg	34.5	34.5	45	45
Outdoor	kg	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
Airflow Cooling (Indoor)	l/s	P-Hi:175 Hi:142 Me:125 Lo:108	P-Hi:183 Hi:150 Me:133 Lo:117		
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	Ø6.35	Ø6.35	Ø6.35
Gas Line	mm	Ø9.52	Ø9.52	Ø12.7	Ø12.7
Connection Method			Flare Connection		
Installation Data — 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)		LB-TC-5W-E	
Motion Sensor (Optional)					
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	°C	-15 to 24	-15 to 24	-20 to 20	-20 to 20

Set model callouts: FDCA71VNX-W, FDCA100VNP-W; SRC60ZSXA-W; SRC25-35ZSA-W; SRC50-60ZSXA-W; FDTC25-60VH

FDE SERIES

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			FDE71AVNAWVH	FDE100AVNAWVH	FDE100AVNPWVH	FDE125AVNPWVH	FDE125AVNPWVH	FDE140AVNPWVH	FDE100AVSAWVH	FDE125AVSNWVH	FDE140AVSNWVH
Indoor			FDE71VH	FDE100VH	FDE100VH	FDE125VH	FDE125VH	FDE140VH	FDE100VH	FDE125VH	FDE140VH
Outdoor			FDCA71VNX-W	FDCA100VNA-W	FDCA100VNP-W	FDCA125VNP-W	FDCA125VNP-W	FDCA140VNX-W	FDCA100VSA-W	FDCA125VSX-W	FDCA140VSX-W
Power Source (Outdoor Unit)			1 Phase 240V 50Hz						3 Phase 380-415V 50Hz		
Nominal Capacity (Range)	Cooling T1	kW	7.1 (3.2-8.0)	10.0 (4.0-12.0)	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	kW	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
*Operation Data	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	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: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	56	56	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)										
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	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52
	Gas Line		Ø15.88	Ø15.88	**Ø6.35	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88
Connection Method							Flare Connection				
Installation Data	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.	m	30 (O.U. above I.U.) / 15 (O.U. below I.U.)	50 (O.U. above I.U.) / 15 (O.U. below I.U.)	30	30	100	100	50	50 (O.U. above I.U.) / 15 (O.U. below I.U.)	100
Controller						RC-E5, RC-EX3A, RCH-E3 or RCN-E-E3				LB-E	
Motion Sensor (Optional)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Demand Response (AS4755)			Yes	Yes	Yes	Yes	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 27°CDB, 19°CWB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.
**Reducer set Ø9.52 -> Ø6.35 is included in the outdoor unit as accessory for FDCA100VNP-W

FDT SERIES

FDT60-71VH

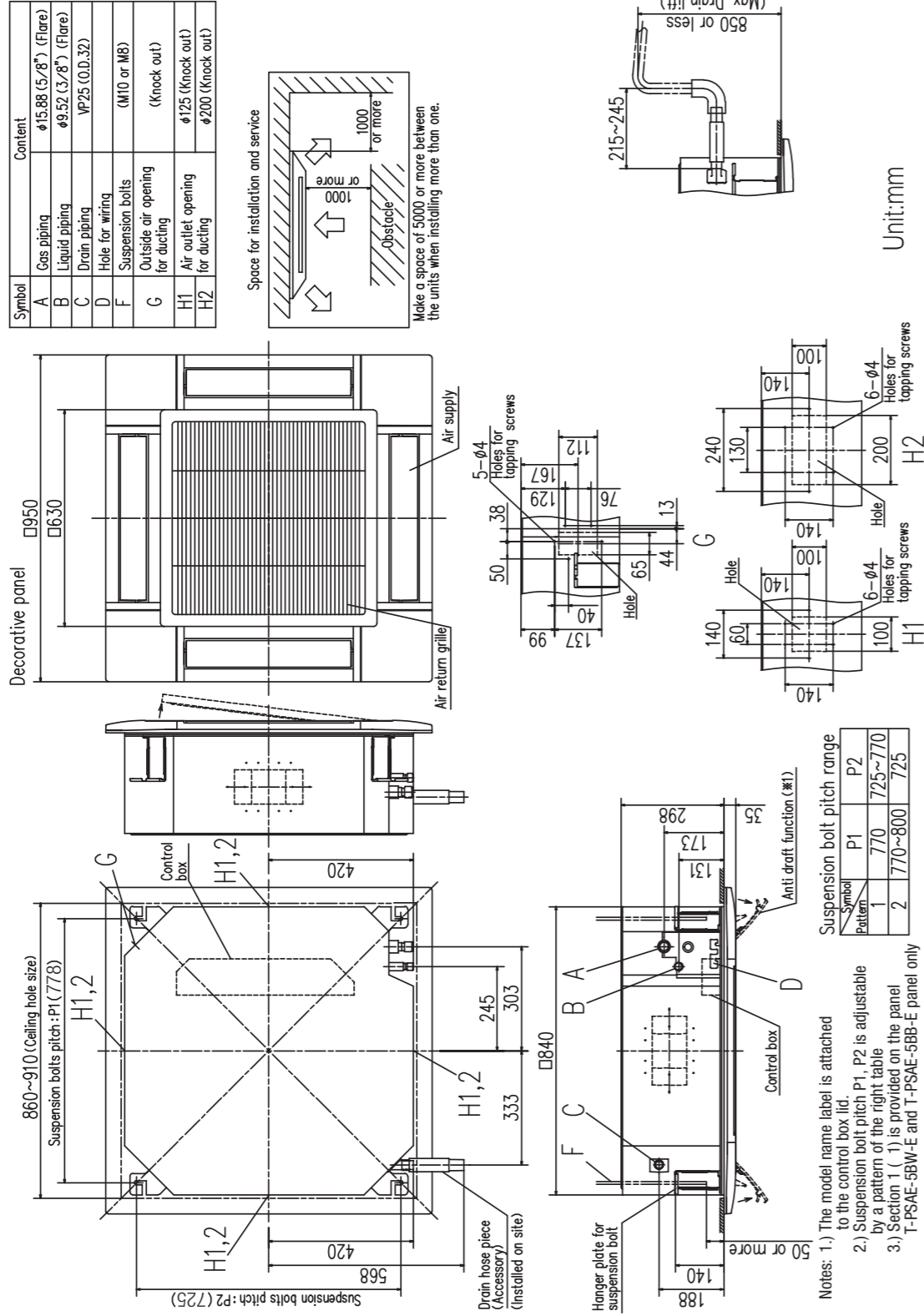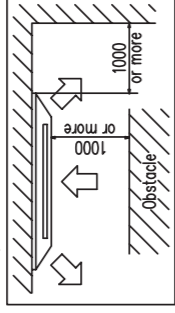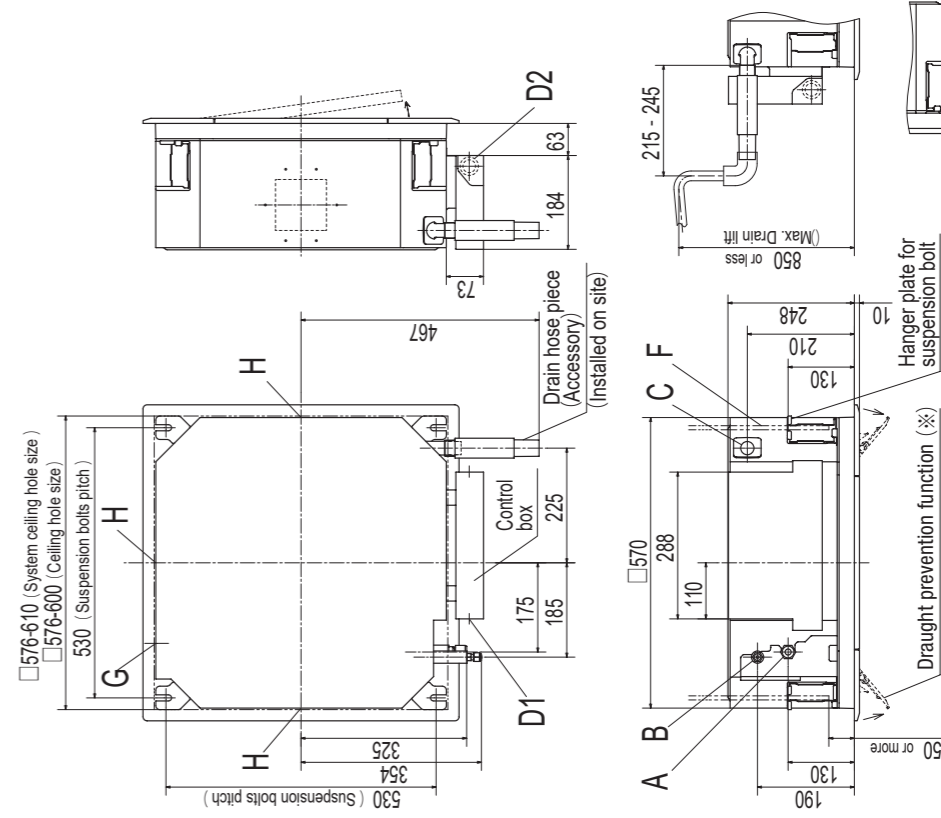| Symbol	Model	Content	
		60	71
A	Gas piping	ø12.7(1/2") (Flare)	ø15.88(5/8") (Flare)
B	Liquid piping	ø6.35(1/4") (Flare)	ø9.52(3/8") (Flare)
C	Drain piping	VP25 (O.D. 32)	
D	Hole for wiring	VP25 (O.D. 32)	
F	Suspension bolts	(M10 or M8)	
G	Outside air opening for ducting	(Knock out)	
H1	Air outlet opening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

Decorative panel

Air supply

Air return grille

Unit:mm

Space for installation and service

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

Obstacle 1000 or more / 50 or more

850 or less (Max. Drain lift)

215~245

Suspension bolt pitch range

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

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 ( ) is provided on the panel T-PSAE-5BW-E and T-PSAE-5BB-E panel only.

Anti draft function (ø61)

Control box

Hanger plate for suspension bolt

Drain hose piece (Accessory) (Installed on site)

860~910 (Ceiling hole size)
Suspension bolts pitch : P1 (778)
Suspension bolts pitch : P2 (725)

FDT100-140VH

Symbol	Content	
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
D	Drain piping	VP25 (O.D.32)
F	Hole for wiring	
	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)

Unit:mm

Space for installation and service

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

1000 or more

Obstacle

850 or less (Max. Drain lift)

215~245

Decorative panel

□950
□630

Air supply

Air return grille

5-φ4 Holes for tapping screws

6-φ4 Holes for tapping screws

H1
H2
G

860~910 (Ceiling hole size)
Suspension bolts pitch : P1 (778)
Suspension bolts pitch : P2 (725)

420
568
420
245
303
333
□840
188
140

Control box

Drain hose piece (Accessory) (Installed on site)

Hanger plate for suspension bolt

50 or more

Anti draft function (※1)

Suspension bolt pitch range

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

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 ( ) is provided on the panel T-PSAE-5BW-E and T-PSAE-5BB-E panel only

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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

Inspection opening (Refer to note (2).)

150-200

Control box

J

Unit:mm

Space for installation and service

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

1000 or more

Obstacle

Decorative panel

□620
□400

Air supply

Air return grille

6-φ4 Holes for tapping screws
4-φ4 Holes for tapping screws

Hole

140
60
88
100
77
φ100
89
58
H
G

D2
184
63
73

850 or less (Max. Drain lift)
215 - 245

Drain hose piece (Accessory) (Installed on site)

Hanger plate for suspension bolt

Draught prevention function (※)

467
248
210
130
10
□570
288
110
130
190

D1

□576-610 (System ceiling hole size)
□576-600 (Ceiling hole size)

530 (Suspension bolts pitch)
530
354
325

225
175
185

H
G
H
H
A B
C F

Control box

50 or more

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
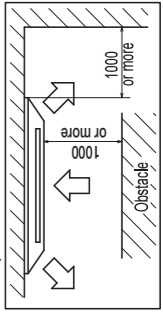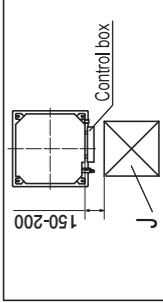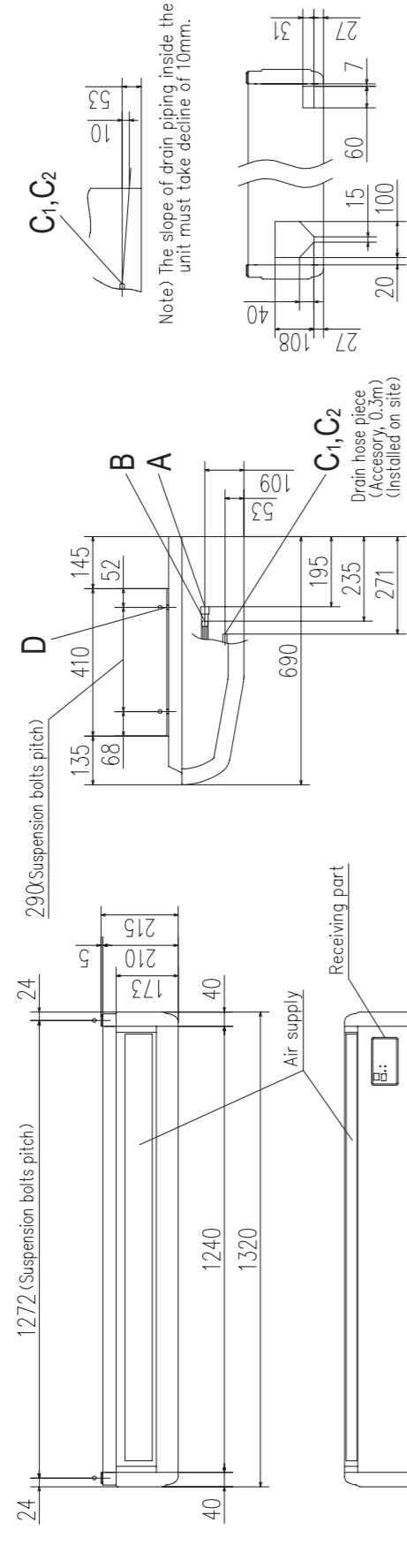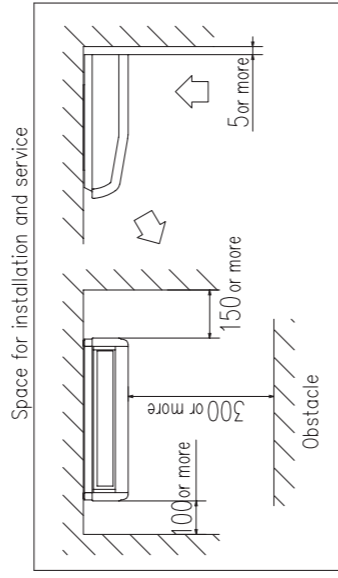3.) Draft prevention function (※) is applicable on TC-PSAE-5AW-E and TC-PSAE-5AW-E panels only

16

17

Drawing labels and dimensions (FDE71VH)

Note) The slope of drain piping inside the unit must take decline of 10mm.

C₁,C₂

31
27
7
60
53
10
15
100
20
108
40
27

B
A
C₁,C₂

Drain hose piece
(Accesory, 0.3m)
(Installed on site)

D
109
53
145
52
195
235
271
410
690
135
68

290(Suspension bolts pitch)

Receiving part

24
5
215
210
173
40

Air supply

1272 (Suspension bolts pitch)

1240
1320

Air return grille

24
40

C₂
76

308
75
110
135
B
A   C₁

Symbol	Model	Content 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.

Position of top cutout and back cutout

Hole for drain piping (for left)

175
19
120
20

G
E
F

Right side cutout

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

Space for installation and service

5 or more
150 or more
300 or more
100 or more
Obstacle

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

NOTES

Date:

Description:

00cm 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18

01
02
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THE
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IN AIR

mhiaa.com.au   ABN 92 133 980 275

Australia: Phone: **1300 138 007**

NSW & Head Office   Block E, 391 Park Road, Regents Park NSW 2143

Victoria   2/15 Howleys Road, Notting Hill VIC 3168

Brisbane   5/26 Flinders Parade, North Lakes QLD 4509

Adelaide   T50 Innovation House, Mawsons Lakes Boulevard, Mawsons Lakes SA 5095

Townsville   1/37 Ross River Road, Mysterton QLD 4812

Western Australia   1/15-17 Capital Road, Malaga WA 6090

Mitsubishi Heavy Industries Air-conditioners Australia, Pty. Ltd.

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