MITSUBISHI HEAVY INDUSTRIES

AIR CONDITIONING

PACKAGED AIR CONDITIONING SYSTEMS

DUCTED | CEILING CASSETTE | CEILING SUSPENDED

# MITSUBISHI HEAVY INDUSTRIES AIR-CONDITIONERS AUSTRALIA

Mitsubishi Heavy Industries Air-Conditioners Australia PTY LTD (MHIAA) is one of Australia's leading suppliers of premium residential and commercial air conditioning systems. Delivering engineering excellence for over 130 years, the MHI brand is instantly recognisable for quality and technological advancement.

With innovation central to both the organisation and the development of air conditioning systems, MHI 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.

BRAND AMBASSADOR TARA DENNIS

Interior designer and Television presenter Tara Dennis joins MHIAA as the brand's first ambassador to Australia and New Zealand. With an extensive experience in home decoration and design, Tara represents the home renovator looking to improve the conditions in their homes and offices.

"As someone who has a passion for styling and renovating homes you want to push the boundaries and create a space that people love being in. Mitsubishi Heavy Industries Air-Conditioners Australia is the perfect extension of this and a brand that I am proud to be supporting"
– Tara Dennis.
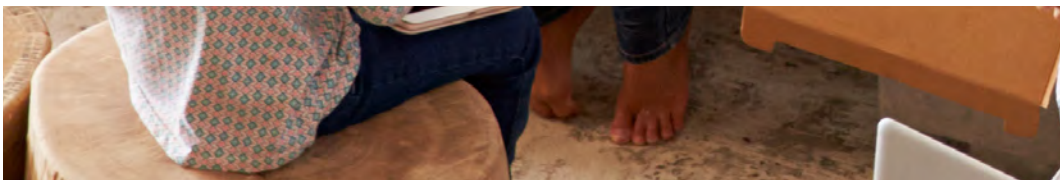
# CONTENTS

OUR TECHNOLOGY

IMPROVED HEAT EXCHANGER

Our new and improved heat exchanger, with a unique 'M' shape design, 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 MHI system.

BLUE FIN TECHNOLOGY

Along with a new, efficient design, the heat exchanger in MHI outdoor units are coated with specially formulated layers that assist in preventing the hydrophilicity effect and also assists in reducing the corrosion rate of the aluminium section from harsh Australian weather conditions.

COATED PCB

BLUE FIN TECHNOLOGY

IMPROVED HEAT EXCHANGER

HIGH EFFICIENCY COMPRESSOR
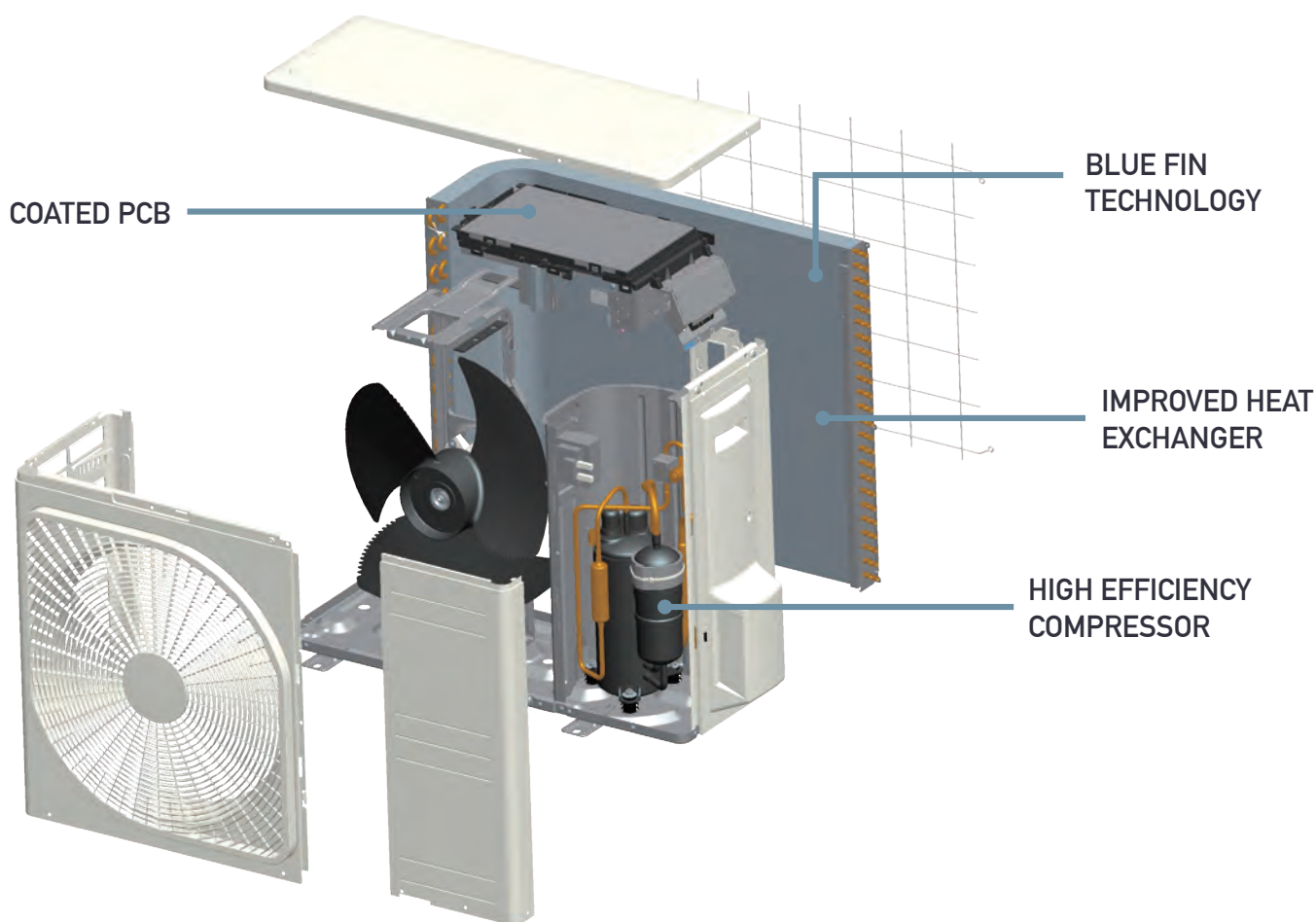
HIGH EFFICIENCY COMPRESSOR

One of the key features that provides MHI's range of air conditioners with its powerful performance is our highly efficient compressor. Combined with a Neodymium Motor that uses powerful, rare earth magnets, MHI air conditioners can deliver a higher motor efficiency while producing much less operational noise.

DC PAM INVERTER

The PAM control used in MHI air conditioners helps minimise loss of electricity and boost 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, MHI air conditioners can operate in ambient outdoor temperatures as low as -15°C in heating mode and as high as +43°C in cooling mode (50°C for FDCA160/200).

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

DUCTED SYSTEMS

With enhanced components incorporated into a slim and compact design, as well as improved serviceability, Mitsubishi's Heavy Industries ducted systems deliver a reliable and highly efficient solution for applications with small ceiling clearances such as small and medium density apartments.
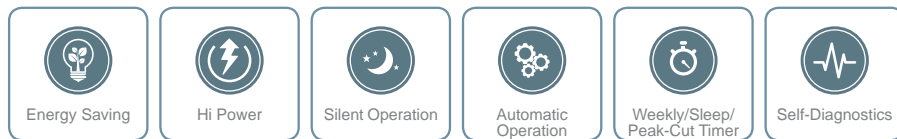
DUCTED SYSTEMS

FDUA SERIES

HIGH STATIC PRESSURE

SINGLE PHASE MODELS (7.1 kW - 14.0kW)
THREE PHASE MODELS (12.5kW - 20.0kW)

Model lineup and product specifications on p.22

| Energy Saving | Hi Power | Silent Operation | Automatic Operation | Weekly/Sleep/ Peak-Cut Timer | Self-Diagnostics |

*Not all functions are available with all remote control options.

FDUA100-160VF (10.0kW - 16.0kW)

FDUA71VF (7.1kW)

FDUA200VG (20.0kW)

FEATURES

MANUAL EXTERNAL STATIC PRESSURE SETTING

By manually setting the external static pressure during installation, the FDUA series is able to deliver even and optimal airflow to each outlet.

QUITE OPERATION

Thanks to our highly efficient DC fan motor the FDUA series boasts super quiet operation levels (25dBA on the FDUA71VF low setting) which ensures no interruptions to room acoustics.

INCREASED ENERGY EFFICIENCY

With an improved heat exchanger, designed to increase refrigerant distribution and overall output, combined with a our DC fan motor, the FDUA series boasts huge energy efficiencies with the 7.1kW achieving a high COP of up to 3.60 in heating and 3.2 in cooling.
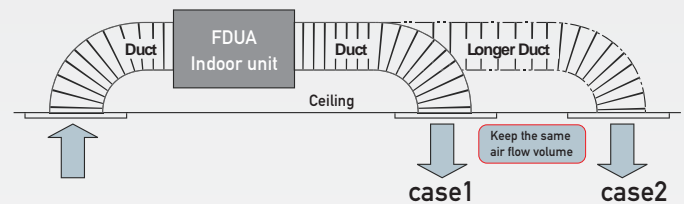
FDUA ESP RANGE									
Setting No.	No.1	No.2	No.3	No.4	...	No.17	No.18	No.19	No.20
E.S.P.	10Pa	20Pa	30Pa	40Pa	...	170Pa	180Pa	190Pa	200Pa

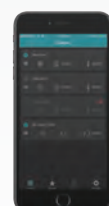## REMOTE CONTROL OPTIONS

WIRED

RC-EX3

RC-E5

RCH-E3

WIRELESS

RCN-KIT 4-E2

Wi Fi
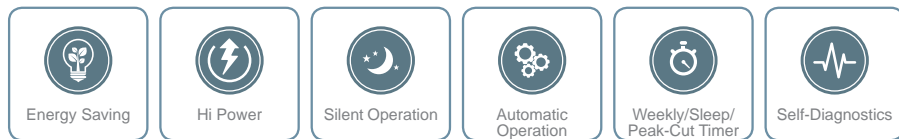
Phone not included

DUCTED SYSTEMS

FDUM SERIES

MEDIUM STATIC PRESSURE

SINGLE PHASE MODELS (5.0 kW - 14.0kW)
THREE PHASE MODELS (12.5kW - 14.0kW)

Model lineup and product specifications on p.23

| Energy Saving | Hi Power | Silent Operation | Automatic Operation | Weekly/Sleep/Peak-Cut Timer | Self-Diagnostics |

*Not all functions are available with all remote control options.
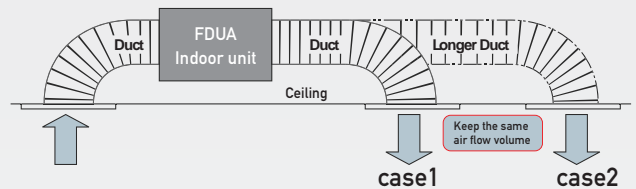
FDUM50-140VF (5.0kW - 14.0kW)

FEATURES

AUTOMATIC EXTERNAL STATIC PRESSURE SETTING

The automatic external static pressure can be set during installation. The FDUM indoor unit will adjust the fan speed as required to maintain the set ESP in ducts and deliver even and optimal airflow to each room.

IMPROVED SERVICEABILITY

Designed to improve serviceability for both the FDUA and FDUM series, the fan unit (comprising of impeller and motor) can be inspected easily due to the slide out fan deck innovative provision.

FLEXIBLE INSTALLATION

The built-in drain pump which includes a lift of 600mm also allows greater flexibility with installation, offering a great solution for applications with limited space.

FDUM ESP RANGE										
Setting No.	No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8	No.9	No.10
E.S.P.	10Pa	20Pa	30Pa	40Pa	50Pa	60Pa	70Pa	80Pa	90Pa	100Pa
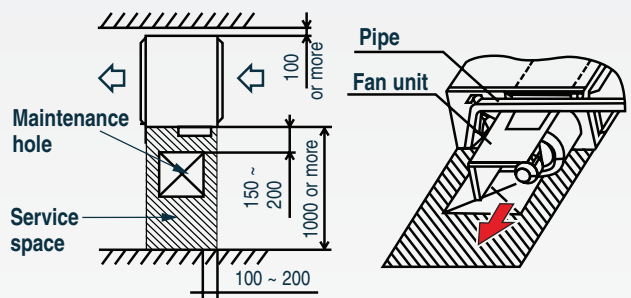
REMOTE CONTROL OPTIONS

WIRED

RC-EX3

RC-E5

RCH-E3

WIRELESS

RCN-KIT 4-E2

Wi Fi

Phone not included

CEILING CASSETTE

With a modern yet discreet design, Mitsubishi Heavy Industries ceiling cassettes are designed to be easily integrated into any commercial space.

The award winning FDT range, which features new draught control technology and individual louvre control, eliminates uncomfortable draughts and ensures every corner of the room is kept at an optimal temperature.
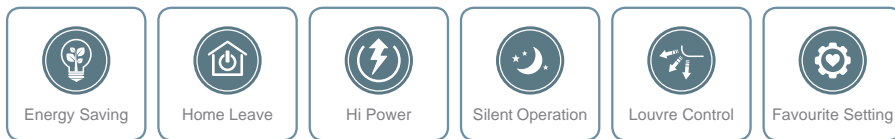
CEILING CASSETTE

FDT SERIES NEW

SINGLE PHASE MODELS (5.6 kW - 14.0kW)
THREE PHASE MODELS (12.5kW - 14.0kW)

Model lineup and product specifications on p.24

Energy Saving	Home Leave	Hi Power	Silent Operation	Louvre Control	Favourite Setting

*Not all functions available with all remote control options.

FDT60-140VG (5.6kW - 14.0kW)

FEATURES

DRAUGHT CONTROL TECHNOLOGY*

New to the Australian and New Zealand market, MHI's Draught Control Technology utilises 4 specially designed louvres to direct airflow horizontally along the ceiling, allowing it to evenly disperse within the room.

By controlling the airflow, these louvres, which are individually controlled via the touch-screen controller, eliminate uncomfortable and annoying draughts which can often occur with ceiling cassettes and ensures every corner of the room is kept at the perfect temperature. * This feature can only be enabled using the RC-EX3 wired controller.

MOTION SENSOR (OPTIONAL)

The new optional motion sensor regulates temperature settings according to the level of human activity detected in the room. This enables energy saving mode when the human activity is low and will automatically turn the unit off when no activity is detected for 12 hours.

LB-T-5W-E

Motion Sensor

EASY INSTALLATION AND SERVICING

The built-in drain pump on our FDT ceiling cassettes can be conveniently discharged up to 850mm upwards allowing for more flexibility during installation and easier servicing.

REMOTE CONTROL OPTIONS
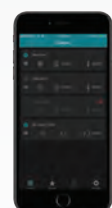
WIRED			WIRELESS	Wi Fi
RC-EX3	RC-E5	RCH-E3	RCN-T-5AW-E2	Phone not included

COMPACT CEILING CASSETTE

FDTC SERIES

SINGLE PHASE MODEL (5.0 kW)

Product specifications on p.24

Energy Saving	Home Leave	Hi Power	Silent Operation	Flap Control	Favourite Setting

FDTC50VF (5.0kW)
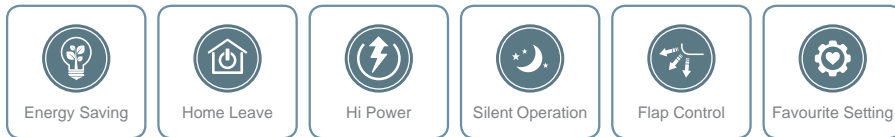
*Not all functions available with all remote control options.

FEATURES

COMPACT DESIGN

With one of the smallest designs on the market (with a height of just 248mm and weight of 15kg) the FDTC series delivers a compact and convenient solution suitable for a variety of applications where roof space is at a premium.

AIRFLOW DIRECTION CONTROL

Users can control the airflow distribution by adjusting the position of the louvres on the indoor unit. The angle of each louvre can be easily changed remotely from the unit's wired control display.
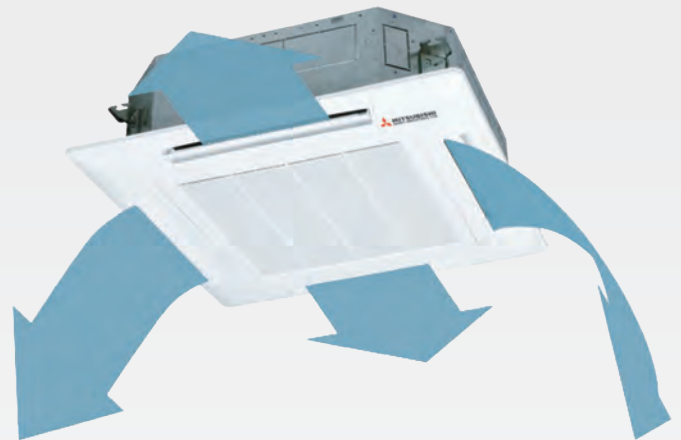
OUTSIDE AIR INTAKE (OPTIONAL)

The Outside Air (OA) spacer which comes as an optional extra, is used to draw fresh air from outside, into circulation indoors. This is beneficial for commercial spaces where a fresh air system is unable to be installed.

EASY INSTALLATION AND SERVICING

The built-in drain pump on our FDTC ceiling cassettes can be conveniently discharged up to 600mm upwards allowing for more flexibility during installation and easy maintenance and servicing.

REMOTE CONTROL OPTIONS
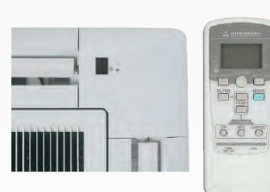
WIRED			WIRELESS	Wi Fi
RC-EX3	RC-E5	RCH-E3	RCN-TC-24W-ER	Phone not included

CEILING SUSPENDED

MHI ceiling suspended systems offer a convenient alternative to wall mounted or floor standing systems and free up vital floor space, making them perfect for restaurants, cafes, stores and other applications where floor space is at a premium.

The new and improved FDE range includes a lighter design as well as offering no disruptions to room acoustics.
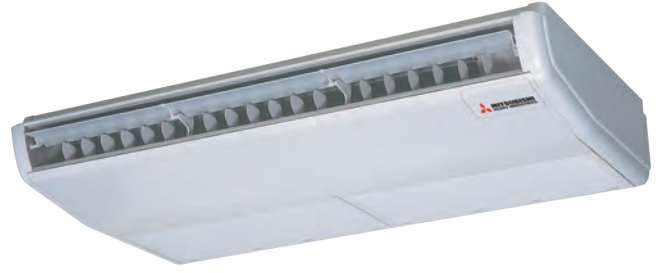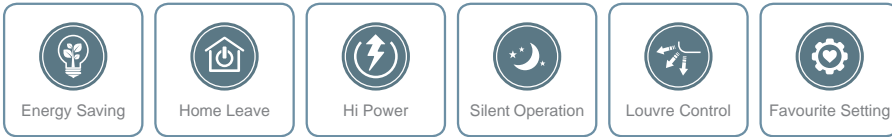
FDE SERIES `NEW`

SINGLE PHASE MODELS (7.1 kW – 14.0kW)
THREE PHASE MODELS (12.5kW – 14.0kW)

Model lineup and product specifications on p.25

FDE71 -140VG (7.1kW - 14.0kW)

Energy Saving	Home Leave	Hi Power	Silent Operation	Louvre Control	Favourite Setting

*Not all functions are available with all remote control options.

# FEATURES

EFFICIENT AND QUIET

The improved design of the fan motor and heat exchanger allows for a more energy efficient and quieter operation, with operation noise being reduced by up to 8dB (A)*. *applies to FDE125VG.

AIRFLOW DIRECTION CONTROL

Users can control the airflow distribution in the room by adjusting the louvre position on the indoor unit. By selecting from 1 of the 6 different set positions via the controller, users are able to achieve the desired airflow to suit their environment.

FLEXIBLE PIPE LAYOUT

Our ceiling suspended units are designed to allow for maximum flexibility during the installation process. With refrigerant piping that can be arranged in 3 different directions (rear, right or up), combined with the drain outlet that allows water to be drained from either the left or right hand side of the unit, the FDE series allows for a variety of pipe layouts and caters to a range of applications with varied installation conditions.

Selected Upper Position
1
2
3
4
5
6
Max Swing Range
Selected Lower Position
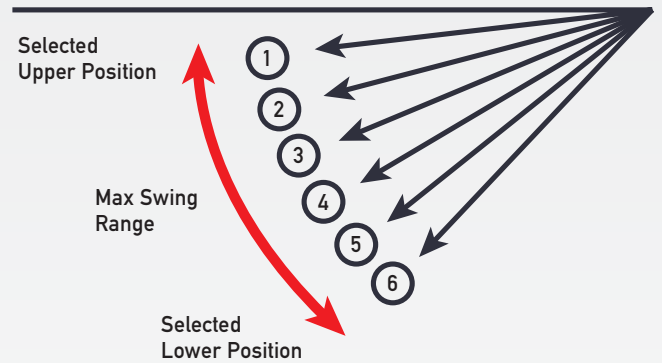
REMOTE CONTROL OPTIONS

WIRED

RC-EX3

RC-E5

RCH-E3

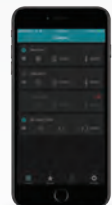**WIRELESS**

RCN-E-E2

Wi Fi

Phone not included

REMOTE CONTROL OPTIONS

Whether you have a ducted system in your home or office or a ceiling suspended system in your cafe, retail store or other business, we have a solution to suit your needs with our flexible control options.

FULL CONTROL
OF YOUR INDOOR CLIMATE

RC - EX3
WIRED CONTROL

HIGH POWER

Rapid cooling/heating for 15 minutes to quickly adjust the room temperature to a comfortable level.

HOME LEAVE MODE

Maintains the room temperature at a moderate level when the room is unoccupied for a prolonged period of time.

SILENT OPERATION

Set your system to run at reduced noise levels for certain periods of time. Perfect for night-time operation and an uninterrupted sleep.

FAVOURITE SETTINGS

Quickly select your preferred combination of operation mode, temperature, fan speed and airflow direction with the click on a button.

SLEEP TIMER

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

AIRFLOW DIRECTION CONTROL

Control the airflow of your ceiling cassette or ceiling suspended unit by adjusting the louvre settings.

INDIVIDUAL CONTROL

WIRED CONTROL

RCH-E3

With the ability to control up to 16 indoor units, RCH-E3 is intended for use in a setting where everyday users only need access to the basic functions.

With the RCH-E3 users can turn the air conditioner ON/OFF and control the mode, temperature and fan speed settings.

RC-E5

The RC-E5 controller allows users to turn the unit ON/OFF, switch operation modes, adjust the temperature, fan speed and air flow direction (up or down), as well as set timer operation. RC-E5 can also display real-time operational data such as refrigerant and air temperatures, compressor speed and error codes.

NEW   RC-EX3

The new and improved RC-EX3 incorporates a range of smart features and functions, giving you complete control over your MHIAA air conditioner.

Key Features:

- Easy to use, intuitive touch screen interface with back light.

- A variety of energy saving functions such as Energy Saving mode, Peak Cut timer, Night Setback mode, Home Leave Mode.

- Control airflow direction of your FDT, FDTC or FDE unit.

- Sleep and weekly timers.

- Hi Power Mode temporarily boosts performance to rapidly cool or heat the room to desired temperature.

- Favourite setting to quickly revert to your preferred combination of operation mode, temperature, fan speed and airflow direction.

WIRELESS CONTROL

WIRELESS KIT AND NEW REMOTE CONTROL

Key Features:

- Hi Power Mode
- Energy Saving Mode
- Home Leave Mode
- Silent Mode
- ON / OFF Timer
- Child Lock

FDTC
RCN-TC-24W-ER

FDT
RCN-T-5AW-E2

FDE
RCN-E-E2

FDUA/FDUM
RCN-KIT4-E2

THERMISTOR (OPTIONAL)

The SC-THB-E3 sensor is 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.

CONTROL YOUR AIR

ANYTIME, ANYWHERE

No matter where you are, enjoy the same control of your Mitsubishi Heavy Industries air conditioner as you would from your home remote, using your smartphone, tablet or computer.

With Wi-Fi Control You Can:

- Turn your air conditioner on and off
- Change the operation mode
- Adjust the fan speed
- Set the desired temperature in your room
- Set and control timers

Plus much more

Available for download

Get it on iTunes

GET IT ON Google Play
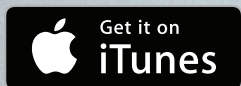
*to be used in conjunction with MH-RC-WIFI-1 wi-fi adaptor

IntesisHome®
Your home in the cloud

NETWORK CONTROL

SRK series   SRF/SRR series   FDTC/FDUM/FDE series

SC-SL4-AE

SC-BIKN2-E   SC-BIKN2-E

RC-EX3   RC-EX3   RC-EX3
RC-E5   RC-E5   RC-E5

SC-ADNA-E   SC-ADNA-E   SC-ADNA-E

CENTRAL CONTROL

SC-SL1N-E

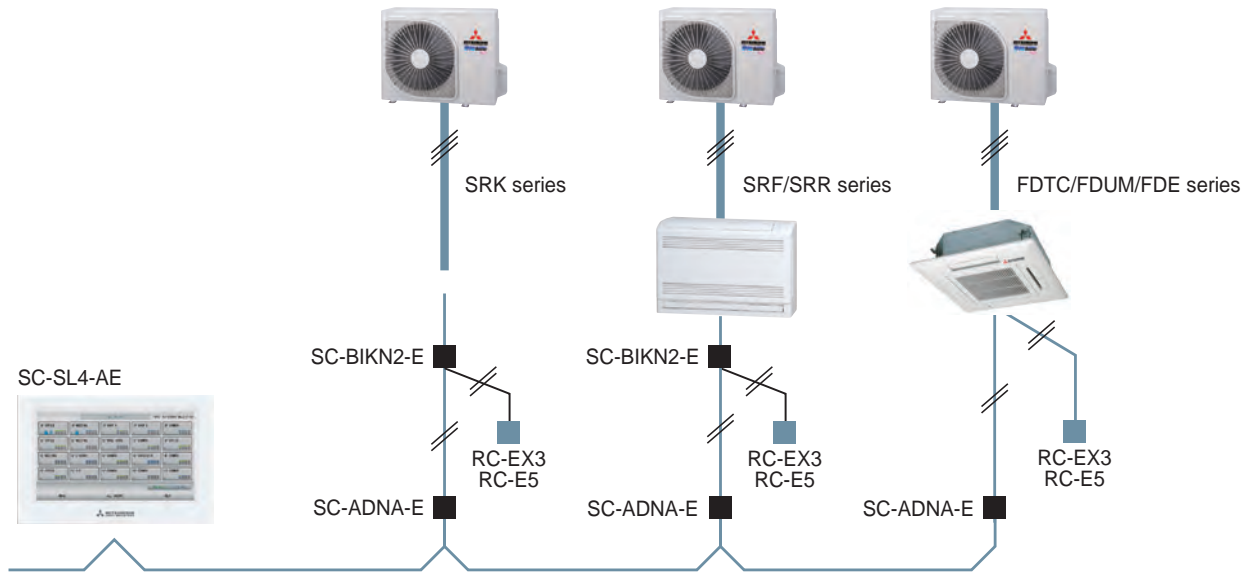Simple, On/Off controller designed for centralised control of up to 16 indoor units.

SC-SL2NA-E
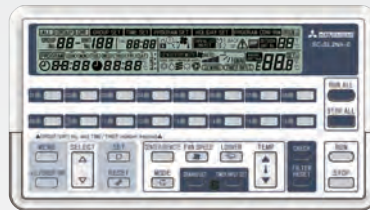
Centralized control of up to 64 indoor units. Weekly timer function as standard.

SC-SL4-AE/BE

A large, easy to use, colour LCD touch screen offering control of up to 128 indoor units.

BUILDING MANAGEMENT SYSTEMS

NEW

SC-WBGW256*
(Web Gateway / BACnet Gateway)

Production By Order

Provides On/Off control of up to 256 units. Designed for large commercial applications.

NEW

SC-LGWNB*
(LonWorks Gateway)

Production By Order

Centralised control of up to 96 indoor units connected to 1 network.

*Additional engineering service is required. Please consult your dealer or sale representative for more information.

AIRZONE

COMPLETE COMFORT

THE ZONING SOLUTION WITHOUT LIMITATIONS

Airzone, zoning solution offers the ultimate level of comfort by providing unrivalled control over your system and in turn, delivering high energy efficiencies and huge cost savings.

Zone 01
18º-52%
21º

AIRZONE

Top Of The Line, European Design

Designed and manufactured in a state-of-the-art facility in Europe, all Airzone components, from the intelligent damper assemblies to the sleek and stylishly designed controllers are of the highest quality and designed to last.

Advanced Features, Simplified Controls

Control and monitor the temperature in up to 10 zones, access timers, scheduling and other advanced features via intuitive and easy to use controllers.

High Efficiencies, Lower Running Costs

Airzone's Q-adapt algorithms, which constantly monitor temperatures and adjusts fan speeds accordingly, will ensure your unit is running as efficiently as possible, delivering huge cost savings.

Comfort In The Palm Of Your Hand

Whether you're at the office, on the move or just across the room, the easy to use Airzone Cloud app gives you complete access to all functions of the system.

CONTROLLER OPTIONS

BLUEFACE – MAIN CONTROLLER

The sleek and stylish Blueface master controller gives you complete control over your system by allowing you to monitor and the temperatures in each individual zone, adjust airflow, access timers, schedules plus much more.

Key Features:

- Wired, intuitive, 3.5" colour touch screen
- Complete system control for up to 10 zones
- Temperature control of every zone
- System mode settings (Cool, Heat, Auto, Dry)
- Operation mode (Eco, Vacation, Stop, Comfort or Night)

- 7 day timer schedule
- Zone temperature control and humidity reading
- Technical system settings and readings
- Sleep mode
- Automatic system software updates*
  *Webserver Airzone Cloud WiFi must be installed.

CONTROL	**ECO-ADAPT**	**MASTER**	**SCHEDULES**
Control temperature, operating mode and system speed.	Maximize your saving thanks to our Eco-Adapt saving function.	Control all zones of your system.	Timers, scheduling and sleep modes

THINK – ZONE CONTROLLER

The THINK zone controller, with it's low-energy, e-ink screen, provides accurate humidity and temperature reading and allows you to control the entire system or individual zones in your system, including temperature, operation mode and system speed.

Key Features:

- E-Ink-screen with capacitive buttons
- Complete system control for up to 10 zones
- Zone thermostat
- Wired or wireless (battery)
- System mode settings (Cool, Heat, Auto, Dry)

- User operation mode (Eco, Vacation, Stop, Comfort or Night Time)
- 7 day timer schedule
- Sleep mode

LITE – ZONE CONTROLLER

The LITE controller offers the same level of accurate comfort control as the THINK controller, in a simplified and compact design. The LITE, which allows you to adjust the temperature in increments, but can be controlled completely via the Airzone cloud app is perfect for areas where you may want to limit access to controls but want full control remotely.

Key Features:

- Simplified zone temperature controller
- Zone thermostat & controller
- Set-point temperature control (accuracy: ±1ºC, up to a limit of ±3ºC)

- On/Off functionality
- Wired or wireless (battery)

SPECIFICATIONS

FEATURES AND FUNCTIONS

COMFORT & CONVENIENCE / ENERGY SAVING

	FUNCTION	DESCRIPTION	FDT	FDTC	FDUA	FDUM	FDE
ENERGY SAVING	Set Temperature Auto Return*	This function allows you to program a preferred set temperature that the unit will return to each time it is operated.	●	●	●	●	●
ENERGY SAVING	Home Leave Operation*	This function 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.	●	●	●	●	●
COMFORT & CONVENIENCE	Hi Power Operation*	Use the high power function to quickly reach your optimum temperature level when you first turn on the unit. This function will operate for a maximum of 15 minutes before returning to normal operation.	●	●	●	●	●
COMFORT & CONVENIENCE	Silent Operation	This function allows you to program periods where the unit will operate with reduced noise levels, perfect for night time and an uninterrupted sleep.	●	●	●	●	●
COMFORT & CONVENIENCE	Automatic Operation	This function automatically selects the required heating or cooling function based on the current room conditions.	●	●	●	●	●
COMFORT & CONVENIENCE	Weekly Timer	Set your unit to turn on and off automatically on a weekly basis to suit your usual room usage on each day.	●	●	●	●	●
COMFORT & CONVENIENCE	Sleep Timer	This function allows you to set a pre-determined amount of time between 30 and 240 mins that your unit will operate for before switching off.	●	●	●	●	●
COMFORT & CONVENIENCE	Peak-Cut Timer*	This function lets you to preset the capacity limit during certain periods of the day, minimising energy consumption during peak billing times, thus reducing operation costs.	●	●	●	●	●
COMFORT & CONVENIENCE	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).	●	●	●	●	●

AIRFLOW / CLEAN AIR / MAINTENANCE

	FUNCTION	DESCRIPTION	FDT	FDTC	FDUA	FDUM	FDE
AIRFLOW	Louvre Control System	This function allows you to set the upper and lower limit positions of the louvre at each air outlet individually, providing you with complete control over interior air flow.	●	●			●
AIRFLOW	Automatic Fan Speed	The unit's on-board microcomputer continuously monitors the room's air temperature and adjusts the air flow automatically.	●	●	●	●	●
AIRFLOW	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 louver 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.	●	●	●	●	●
CLEAN AIR	Filter Sign	This warning alerts you to when the filter needs to be cleaned.	●	●	●	●	●
CLEAN AIR	Outside Air Intake	This function 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.	●	●	●	●	●
MAINTENANCE	Improved Serviceability	The fan unit (comprised of impeller and motor) is easily accessible from either the side or bottom of the unit and can be slid out for easy maintenance.			●	●	
MAINTENANCE	Built in Drain Pump	The built-in drain pump, which includes a lift of 600mm, allows greater flexibility with installation, offering a great solution for applications with limited space. (FDUM and FDUA model)	●	●	●	●	

*Functions can only be enabled using the RC-EX3 wired controller

FDUA SERIES

FDUA	7.1 KW	10.0 KW	10.0 KW	10.0 KW	12.5 KW	14.0 KW	12.5 KW	14 KW	16 KW	20 KW
Set	FDUA71AVNXAVF	FDUA100VNP1VF2	FDUA100AVNVF2	FDUA100AVNXVF2	FDUA125AVNXVF	FDUA140AVNXVF	FDUA125VSXVF	FDUA140AVSXVF	FDUA160AVSAVF	FDUA200AVSAVG
Indoor	FDUA71VF	FDUA100VF2	FDUA100VF2	FDUA100VF2	FDUA125VF	FDUA140VF	FDUA125VF	FDUA140VF	FDUA160VF	FDUA200VG
Outdoor	FDCA71VNXA	FDC100VNP	FDCA100VN	FDCA100VNX	FDCA125VNX	FDCA140VNX	FDC125VSX	FDCA140VSX	FDCA160VSA	FDCA200VSA
Power Supply — Outdoor Unit	1 Phase 230V 50Hz	1 Phase 230V 50Hz	1 Phase 230V 50Hz	1 Phase 230V 50Hz	1 Phase 230V 50Hz	1 Phase 230V 50Hz	3 Phase 415V 50Hz	3 Phase 415V 50Hz	3 Phase 415V 50Hz	3 Phase 415V 50Hz
Capacity (kW) — Cooling T1	7.1 (3.2-8.0)	10.0 (2.8-11.2)	10.0 (4.0-11.2)	10.0 (4.0-11.2)	12.5 (5.0-14.0)	14.0 (5.0-14.5)	12.5 (5.0 - 14.0)	14.0 (5.0-14.5)	16.0 (6.9-20.0)	20.0 (6.9-28.0)
Heating H1	8.0 (3.6-9.0)	11.2 (2.5-12.5)	11.2 (4.0-12.5)	11.2 (4.0-12.5)	14.0 (4.0-17.0)	16.0 (4.0-18.0)	14.0 (4.0 - 17.0)	16.0 (4.0-18.0)	18.0 (5.5-22.4)	22.4(5.5-31.5)
Input (kW) — Cooling T1	2.22	2.99	3.05	2.85	3.83	4.44	3.83	4.44	4.83	6.03
Heating H1	2.22	2.88	2.87	2.74	3.68	4.41	3.68	4.44	4.66	5.5
EER — Cooling T1	3.20	3.34	3.28	3.51	3.26	3.15	3.26	3.15	3.31	3.32
COP — Heating H1	3.60	3.89	3.90	4.09	3.80	3.63	3.80	3.6	3.86	4.07
Sound Pressure Level (JS C9612) — Indoor	P-Hi:38 Hi:33 Me:29 Lo:25	P-Hi:43 Hi:42 Me:40 Lo:37	P-Hi:43 Hi:42 Me:40 Lo:37	P-Hi:43 Hi:42 Me:40 Lo:37	P-Hi:45 Hi:43 Me:41 Lo:37	P-Hi:47 Hi:46 Me:43 Lo:40	P-Hi : 47 Hi : 46 Me : 43 Lo : 40	P-Hi:47 Hi:46 Me:43 Lo:40	P-Hi:49 Hi:48 Me:45 Lo:42	P-Hi:52 Hi:50 Me:47 Lo:45
Outdoor	51	57	49	48	48	49	48	49	59	59
Sound Power Level (JS C9612) — Outdoor	66	70	70	70	70	72	70	70	73	73
Airflow (l/s) — Indoor	P-Hi: 400 Hi: 317 Me: 250 Lo: 167	P-Hi:650 Hi:600 Me:550 Lo:483	P-Hi:650 Hi:600 Me:550 Lo:483	P-Hi:650 Hi:600 Me:550 Lo:483	P-Hi:717 Hi:650 Me:600 Lo:500	P-Hi:850 Hi:800 Me:700 Lo:600	P-Hi:717 Hi:650 Me:600 Lo:500	P-Hi:850 Hi:800 Me:700 Lo:600	P-Hi:850 Hi:800 Me:700 Lo:600	P-Hi:1333 Hi:1200 Me:1067 Lo:933
External Static Pressure (Ps)	200	200	200	200	200	200	200	200	200	200
External Dimensions (HXWXD) (mm) — Indoor	280x950x635	398x1150x650	398x1150x650	398x1150x650	398x1150x650	398x1150x650	398x1150x650	398x1150x650	398x1150x650	379x1600x893
Outdoor	750x880(+88)x340	845x970x370	845x970x370	1300x970x370	1300x970x370	1300x970x370	1300x970x370	1300x970x370	1505x970x370	1505x970x370
Net Weight (Kg) — Indoor	34	52	52	52	52	52	52	52	52	89
Outdoor	60	70	81	105	105	105	105	105	143	143
Refrigerant Piping — Liquid Line	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø12.7	Ø12.7
Gas Line (mm)	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø22.22 , Ø25.4 or Ø28.58*	Ø22.22 , Ø25.4 or Ø28.58*
Connection Method	Flare Connection	Flare Connection	Flare Connection	Flare Connection	Flare Connection	Flare Connection	Flare Connection	Flare Connection	Liquid: Flare / Gas: Brazing	Liquid: Flare / Gas: Brazing
Refrigerant R410A — Quantity (Kg)	2.95	2.55	3.8	4.5	4.5	4.5	4.5	4.5	7.2	7.2
Pre Charged To Pipe Length (m)	30	15	30	30	30	30	30	30	30	30
Maximum Pipe Length (m)	50	30	50	100	100	100	100	100	70*	70*
Supply Air Connection (mm)	170x880	348x898	348x898	348x898	348x898	348x898	348x898	348x898	348x898	250x1450
Return Air Connection (mm)	200x740	348x898	348x898	348x898	348x898	348x898	348x898	348x898	348x898	250x1450
Controller	RC-E5, RC-EX3 or RCN-KIT4-E2									
Safety Pen	UA-SP1-E (Optional)	UA-SP2-E (Optional)	UA-SP2-E (Optional)	UA-SP2-E (Optional)	UA-SP2-E (Optional)	UA-SP2-E (Optional)	UA-SP2-E (Optional)	UA-SP2-E (Optional)	UA-SP2-E (Optional)	NA

Outdoor unit model references (images): FDCA160-200VSA · FDCA100-140VNX, FDC125VSX, FDCA140VSX · FDC100VNP / FDCA100VN · FDCA71VNXA · FDUA200VG · FDUA71VF · FDUA100-160VF

* Refer to technical manual

PRODUCT SPECIFICATIONS
FDUM SERIES

FDC125VSX, FDCA140VSX

FDC100VNP/ FDCA100VN

FDCA71VNXA

SRC50-60ZMXA-S

FDUM50-140VF.

FDUM	CAPACITY		5.0 KW	5.6 KW	7.1 KW	10.0 KW	10.0 KW	12.5 KW	14.0 KW	12.5 KW	14.0 KW
Set			FDUM50ZMXAVF	FDUM60ZMXAVF	FDUM71AVNXAVF1	FDUM100VNP1VF2	FDUM100AVNVF2	FDUM125AVNXAVF	FDUM140AVNXVF	FDUM125VSXAVF	FDUM140AVSXVF
Indoor			FDUM50VF	FDUM60VF	FDUM71VF1	FDUM100VF2	FDUM100VF2	FDUM125VF	FDUM140VF	FDUM125VF	FDUM140VF
Outdoor			SRC50ZMXA-S	SRC60ZMXA-S	FDCA71VNXA	FDC100VNP	FDCA100VN	FDCA125VNX	FDCA140VNX	FDC125VSX	FDCA140VSX
Power Supply	Outdoor Unit		1 Phase 230V 50Hz	1 Phase 230V 50Hz	1 Phase 230V 50Hz	1 Phase 230V 50Hz	1 Phase 230V 50Hz	1 Phase 230V 50Hz	1 Phase 230V 50Hz	3 Phase 415V 50Hz	3 Phase 415V 50Hz
Capacity	Cooling T1	kW	5.0 (2.2-5.6)	5.6 (2.8-6.3)	7.1 (3.2-8.0)	10.0 (2.8-11.2)	10.0 (4.0-11.2)	12.5 (5.0-14.0)	14.0 (5.0-14.5)	12.5 (5.0-14.0)	14.0 (5.0-16.0)
	Heating H1	kW	5.4 (0.6-6.3)	6.7 (0.6-7.1)	8.0 (3.6-9.0)	11.2 (2.5-12.5)	11.2 (4.0-12.5)	14.0 (4.0-16.0)	16.0 (4.0-16.5)	14.0 (4.0-18.0)	16.0 (4.0-20.0)
	Heating H2		4.3	4.9	7.0	8.3	11.4	13.7	14.3	16.2	NA
Input	Cooling T1	kW	1.56	1.75	2.20	3.00	2.92	3.60	4.40	3.60	4.40
	Heating H1	kW	1.70	2.00	2.20	2.93	3.20	3.90	4.54	3.90	4.54
EER	Cooling T1		3.21	3.20	3.23	3.33	3.42	3.47	3.18	3.47	3.18
COP	Heating H1		3.18	3.35	3.64	3.82	3.50	3.59	3.52	3.59	3.52
Sound Pressure Level (JS C9612)	Indoor	dB(A)	P-Hi:37 Hi:32 Me:29 Lo:26	P-Hi:36 Hi:31 Me:28 Lo:25	P-Hi:38 Hi:33 Me:29 Lo:25	P-Hi:44 Hi:38 Me:36 Lo:30	P-Hi:44 Hi:38 Me:36 Lo:30	P-Hi:45 Hi:40 Me:34 Lo:29	P-Hi:47 Hi:40 Me:35 Lo:30	P-Hi: 47 Hi: 40 Me: 35 Lo: 30	P-Hi:47 Hi:40 Me:35 Lo:30
	Outdoor		50	54	51	57	49	50	49	48	49
Sound Power Level (JS C9612)	Outdoor		63	64	66	70	70	70	72	70	70
Airflow	Indoor	l/s	P-Hi: 217 Hi: 167 Me: 150 Lo: 133	P-Hi:333 Hi:250 Me:217 Lo:167	P-Hi: 400 Hi: 316 Me: 250 Lo: 166	P-Hi:600 Hi:467 Me:417 Lo:317	P-Hi: 600 Hi: 467 Me: 417 Lo: 317	P-Hi:650 Hi:533 Me:433 Lo:333	P-Hi:800 Hi:583 Me:467 Lo:367	P-Hi:650 Hi:533 Me:433 Lo:333	P-Hi:800 Hi:583 Me:467 Lo:367
External Static Pressure		Pa	100	100	100	100	100	100	100	100	100
External Dimensions (HXWXD)	Indoor	mm	280x750x635	280x950x635	280x950x635	280x1370x740	280x1370x740	280x1370x740	280x1370x740	280x1370x740	280x1370x740
	Outdoor		640x800(+71)x290	640x800(+71)x290	750x880(+88)x340	845x970x370	845x970x370	1300x970x370	1300x970x370	1300x970x370	1300x970x370
Net Weight	Indoor	Kg	29	34	34	54	54	54	54	54	54
	Outdoor		45	45	60	70	81	105	105	105	105
Refrigerant Piping	Liquid Line	mm	Ø6.35	Ø6.35	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52
	Gas Line		Ø12.7	Ø12.7	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88
	Connection Method		Flare Connection	Flare Connection	Flare Connection	Flare Connection	Flare Connection	Flare Connection	Flare Connection	Flare Connection	Flare Connection
Refrigerant R410A	Quantity	Kg	1.5	1.5	2.95	2.55	3.8	4.5	4.5	4.5	4.5
	Pre Charged To Pipe Length	m	15	15	30	15	30	30	30	30	30
Maximum Pipe Length		m	30	30	50	30	50	100	100	100	100
Supply Air Connection		mm	170x680	170x880	170x880	170 x 1200	170 x 1200	170 x 1200	170 x 1200	170 x 1200	170 x 1200
Return Air Connection		mm	200x660	200x860	200x860	235 x 1280	235 x 1280	235 x 1280	235 x 1280	235 x 1280	235 x 1280
Controller			RC-E5, RC-EX3 or RCN-KIT4-E2								

FDTC & FDT

FDC125VSX, FDCA140VSX
FDC100VNP/ FDCA100VN
FDCA71VNXA
FDT60-140VG
FDTC50VF

FDTC & FDT	CAPACITY	Unit	FDTC 5.0 KW	FDT 5.6 KW	FDT 7.1 KW	FDT 10.0 KW	FDT 10.0 KW	FDT 12.5 KW	FDT 14.0 KW	FDT 12.5 KW	FDT 14.0 KW
Set			FDTC50ZMXAVF	FDT60ZMXAVG	FDT71AVNXAVG	FDT100AVNVG	FDT100VNPVG	FDT125AVNXVG	FDT140AVNXVG	FDT125VSXVG	FDT140AVSXVG
Indoor			FDTC50VF	FDT60VG	FDT71VG	FDT100VG	FDT100VG	FDT125VG	FDT140VG	FDT125VG	FDT140VG
Outdoor			SRC50ZMXA-S	SRC60ZMXA-S	FDCA71VNXA	FDCA100VN	FDC100VNP	FDCA125VNX	FDCA140VNX	FDC125VSX	FDCA140VSX
Power Supply	Outdoor Unit		1 Phase 230V 50Hz	1 Phase 230V 50Hz	1 Phase 230V 50Hz	1 Phase 230V 50Hz	1 Phase 230V 50Hz	1 Phase 230V 50Hz	1 Phase 230V 50Hz	3 Phase 415V 50Hz	3 Phase 415V 50Hz
Capacity	Cooling T1	kW	5.0(1.1-5.6)	5.6(1.1-6.3)	7.1 (3.2-8.0)	10.0 (4.0-11.2)	10.0 (2.8-11.2)	12.5 (5.0-14.0)	14.0 (5.0-16.0)	12.5 (5.0-14.0)	14.0 (5.0-16.0)
	Heating H1	kW	5.4 (0.6-6.3)	6.7 (0.6-7.1)	8.0 (3.6-9.0)	11.2 (4.0-12.5)	11.2 (2.5-12.5)	14.0 (4.0-17.0)	16.0 (4.0-18.0)	14.0 (4.0-18.0)	16.0 (4.0-20.0)
	Heating H2		5.1	5.4	6.6	8.8	8.7	12.8	13.4	15.0	14.5
Input	Cooling T1	kW	1.56	1.52	1.94	2.76	2.76	3.42	4.26	3.42	4.26
	Heating H1		1.45	1.56	1.91	2.74	2.84	3.43	4.20	3.43	4.20
EER	Cooling T1		3.20	3.68	3.66	3.65	3.62	3.65	3.29	3.65	3.29
COP	Heating H1		3.72	4.29	4.19	4.08	4.52	4.08	3.81	4.08	3.81
Sound Pressure Level (JS C9612)	Indoor	dB(A)	P-Hi:47 Hi:42 Me:36 Lo:30	P-Hi:44 Hi:34 Me:32 Lo:28	P-Hi:46 Hi:35 Me:34 Lo:29	P-Hi:49 Hi:41 Me:39 Lo:32	P-Hi:51 Hi:40 Me:37 Lo:35	P-Hi:49 Hi:41 Me:39 Lo:32	P-Hi:49 Hi:42 Me:39 Lo:33	P-Hi : 49 Hi : 41 Me : 39 Lo : 32	P-Hi:49 Hi:42 Me:39 Lo:33
	Outdoor		54	52	51	48	57	48	49	48	49
Sound Power Level (JS C9612)	Outdoor		63	65	66	70	70	70	72	70	72
Airflow	Indoor	l/s	P-Hi: 225 Hi: 191 Me: 150 Lo: 133	P-Hi: 433 Hi: 283 Me: 233 Lo: 183	P-Hi: 467 Hi: 300 Me: 250 Lo: 200	P-Hi: 616 Hi: 450 Me: 400 Lo: 333	P-Hi:616 Hi:450 Me:400 Lo:333	P-Hi: 633 Hi: 467 Me: 417 Lo: 300	P-Hi: 633 Hi: 483 Me: 433 Lo: 317	P-Hi: 633 Hi: 467 Me: 417 Lo: 300	P-Hi: 633 Hi: 483 Me: 433 Lo: 317
Panel			TC-PSA-25W-E	T-PSAE-5AW-E							
External Dimensions (HXWXD)	Panel	mm	35x700x700	35x950x950	35x950x950	35x950x950	35x950x950	35x950x950	35x950x950	35x950x950	35x950x950
	Indoor		248x570x570	236x840x840	236x840x840	298x840x840	298x840x840	298x840x840	298x840x840	298x840x840	298x840x840
	Outdoor		640x800(+71)x290	640x800(+71)x290	750x880(+88)x340	845x970x370	845x970x370	1300x970x370	1300x970x370	1300x970x370	1300x970x370
Net Weight	Indoor	Kg	Unit 15 Panel 3.5	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
	Outdoor		45	45	60	81	70	105	105	105	105
Refrigerant Piping	Liquid Line	mm	Ø6.35	Ø6.35	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52
	Gas Line	mm	Ø12.7	Ø12.7	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88
	Connection Method		Flare connection	Flare connection	Flare connection	Flare connection	Flare connection	Flare connection	Flare connection	Flare connection	Flare connection
Refrigerant R410A	Quantity	Kg	1.5	1.5	2.95	3.8	2.55	4.5	4.5	4.5	4.5
	Pre Charged To Pipe Length	m	15	15	30	30	15	30	30	30	30
Maximum Pipe Length		m	30	30	50	50	30	100	100	100	100
Controller			RCH-E3, RC-E5, RC-EX3 or RCN-TC-24W-ER	RCH-E3, RC-E5, RC-EX3 or RCN-T-5AW-E2							

PRODUCT SPECIFICATIONS

FDE SERIES

FDE	CAPACITY		7.1 KW	10.0 KW	10.0 KW	10.0 KW	12.5 KW	14.0 KW	12.5 KW	14.0 KW
Set			FDE71AVNXAVG	FDE100VNP1VG	FDE100AVNVG	FDE100AVNXVG	FDE125AVNXVG	FDE140AVNXVG	FDE125VSXVG	FDE140AVSXVG
Indoor			FDE71VG	FDE100VG	FDE100VG	FDE100VG	FDE125VG	FDE140VG	FDE125VG	FDE140VG
Outdoor			FDCA71VNXA	FDC100VNP	FDCA100VN	FDCA100VNX	FDCA125VNX	FDCA140VNX	FDC125VSX	FDCA140VSX
Power Supply	Outdoor Unit		1 Phase 230V 50Hz	1 Phase 230V 50Hz	1 Phase 230V 50Hz	1 Phase 230V 50Hz	1 Phase 230V 50Hz	1 Phase 230V 50Hz	3 Phase 415V 50Hz	3 Phase 415V 50Hz
Capacity	Cooling T1	kW	7.1 (4.0-8.0)	10.0 (2.8-11.2)	10.0 (4.0-11.2)	10.0 (4.0-11.2)	12.5 (5.0-14.0)	14.0 (5.0-16.0)	12.5 (5.0-14.0)	14.0 (5.0-16.0)
	Heating H1		8.0 (3.6-9.0)	11.2 (2.5-12.5)	11.2 (4.0-12.5)	11.2 (4.0-12.5)	14.0 (4.0-17.0)	16.0 (4.0-18.0)	14.0 (4.0-18.0)	16.0 (4.0-20.0)
	Heating H2		7.0	8.1	9.5	12.6	13.2	13.5	14.6	15
Input	Cooling T1	kW	2.11	2.66	2.85	2.55	3.50	4.40	3.61	4.40
	Heating H1		2.11	2.94	2.9	2.68	3.77	4.69	3.78	4.69
EER	Cooling T1		3.36	3.76	3.51	3.92	3.57	3.18	3.46	3.18
COP	Heating H1		3.79	3.81	3.86	4.18	3.71	3.41	3.7	3.41
Sound Pressure Level (JS 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:40 Lo:35	P-Hi:49 Hi:45 Me:40 Lo:36	P-Hi: 48 Hi : 45 Me : 40 Lo : 35	P-Hi:49 Hi:45 Me:40 Lo:36
	Outdoor		51	57	49	48	48	49	48	49
Sound Power Level (JS C9612)	Outdoor		66	70	70	70	70	72	70	72
Airflow	Indoor	I/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:433 Me: 350 Lo: 275	P-Hi:533 Hi:483 Me: 383 Lo: 283	P-Hi:567 Hi:483 Me: 383 Lo: 300	P-Hi:533 Hi:483 Me: 383 Lo: 283	P-Hi:567 Hi:483 Me: 383 Lo: 300
External Dimensions (HXWXD)	Indoor	mm	210x1320x690	250x1620x690	250x1620x690	250x1620x690	250x1620x690	250x1620x690	250x1620x690	250x1620x690
	Outdoor		750x880(+88)x340	845x970x370	845x970x370	1300x970x370	1300x970x370	1300x970x370	1300x970x370	1300x970x370
Net Weight	Indoor	Kg	33	43	43	43	43	43	43	43
	Outdoor		60	70	81	105	105	105	105	105
Refrigerant Piping	Liquid Line	mm	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52
	Gas Line		Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88
	Connection Method		Flare Connection	Flare Connection	Flare Connection	Flare Connection	Flare Connection	Flare Connection	Flare Connection	Flare Connection
Refrigerant R410A	Quantity	Kg	2.95	2.55	3.8	4.5	4.5	4.5	4.5	4.5
	Pre Charged To Pipe Length	m	30	15	30	30	30	30	30	30
Maximum Pipe Length		m	50	30	50	100	100	100	100	100
Controller			RC-E5, RC-EX3, RCH-E3 or RCN-E-E2							

FDCA100-140VNX, FDC125VSX, FDCA140VSX
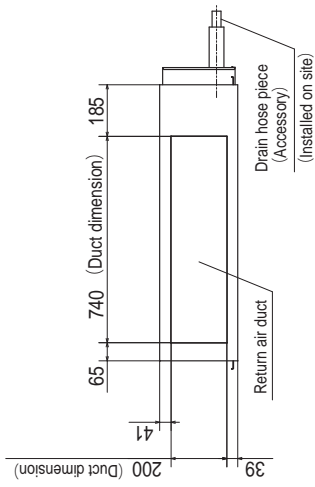
FDC100VNP/ FDCA100VN

FDCA71VNXA

FDE71-140VG

FDUA SERIES

INDOOR UNITS
FDUA100VF2

Symbol		Content
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C1	Drain piping	VP25 (I.D.25,O.D.32)
C2	Drain piping (Gravity drainage)	VP25 (I.D.25,O.D.32)
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Inspection hole	(450X450)

INDOOR UNITS
FDUA71VF
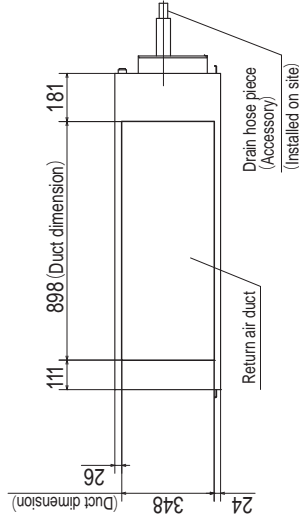
Symbol		Content
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C1	Drain piping	VP25 (I.D.25,O.D.32)
C2	Drain piping (Gravity drainage)	VP20 (I.D.20,O.D.26)
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Inspection hole	(450X450)

Unit:mm

FDUA SERIES

INDOOR UNITS
FDUA160VF

Symbol		Content
A	Gas piping	φ15.88 (5／8") (Flare)*
B	Liquid piping	φ9.52 (3／8") (Flare)
C1	Drain piping	VP25 (I.D.25,O.D.32)
C2	Drain piping (Gravity drainage)	VP25 (I.D.25,O.D.32)
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Inspection hole	(450X450)
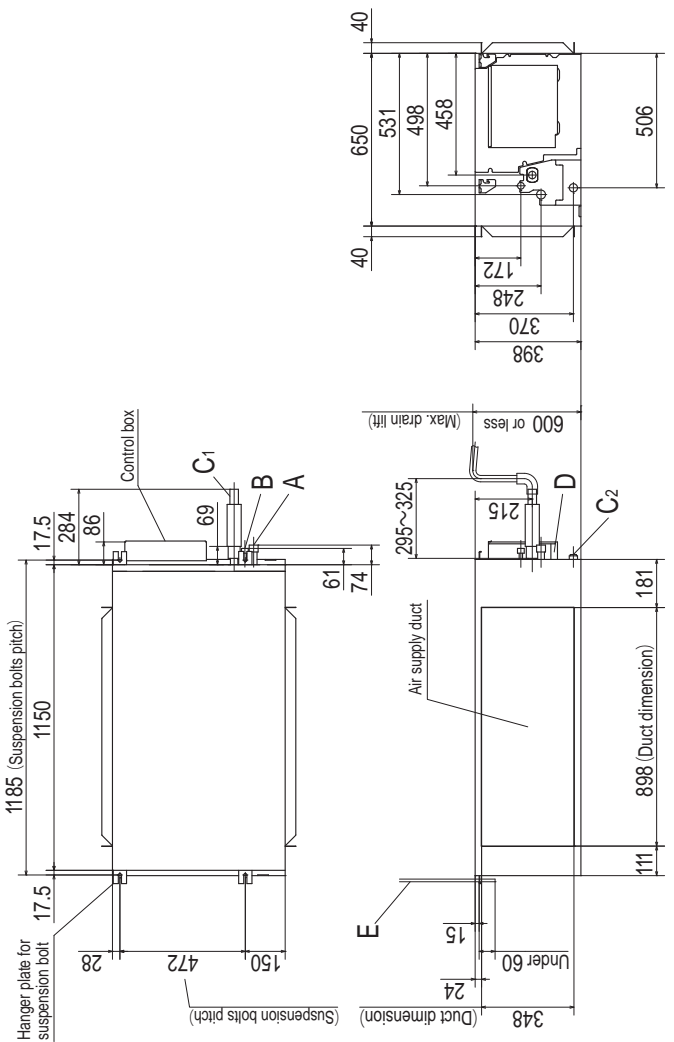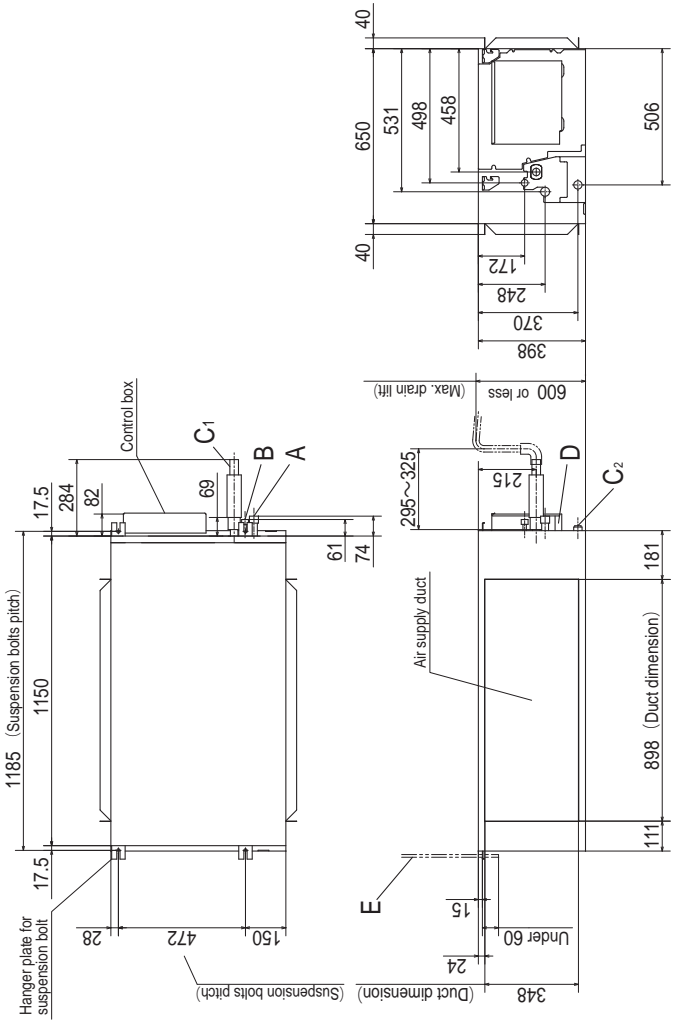
*Please refer to the installation manual. Be sure to use the piping accessories that come with the indoor and outdoor units.

Unit:mm

INDOOR UNITS
FDUA125VF, FDUA140VF

Symbol		Content
A	Gas piping	φ15.88 (5／8") (Flare)*
B	Liquid piping	φ9.52 (3／8") (Flare)
C1	Drain piping	VP25 (I.D.25,O.D.32)
C2	Drain piping (Gravity drainage)	VP25 (I.D.25,O.D.32)
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Inspection hole	(450X450)

Unit:mm

INDOOR UNITS
FDUA200VG

Symbol		Content
A	Gas piping	ϕ25.4 (1") (Brazing)
B	Liquid piping	ϕ12.7 (1 / 2") (Brazing)
C1	Drain piping	VP25 (O.D.32)
C2	Drain piping (Gravity drainage)	VP25 (O.D.32)
D	Hole for wiring	
E	Suspension bolts	M10
F	Inspection hole	(450X450)

Unit:mm

Drain hose piece (Accessory) (Installed on site)

Return air duct

Control box

Hanger plate for suspension bolt

Air supply duct

75 · 1450 (Duct dimension) · 75
79 · 250 (Duct dimension) · 50

17 · 284 · 85
69 · 80
17
31 · 831 (Suspension bolts pitch) · 31
1600 · 1634 (Suspension bolts pitch)

25 · 893 · 25
349 · 759 · 579 · 486 · 539
133 · 165 · 379

295~325 · 179 · 50
600 or less (Max. drain lift)

75 · 1450 (Duct dimension) · 75
6 · 250 (Duct dimension) · 50

INDOOR UNITS
FDUM60VF, FDUM71VF

Symbol	Model	Content	
		60	71
A	Gas piping	φ 12.7(1/2")(Flare)	φ 15.88(5/8")(Flare)
B	Liquid piping	φ 6.35(1/4")(Flare)	φ 9.52(3/8")(Flare)
C1	Drain piping	VP20(I.D.20, O.D.26) Note(2)	
C2	Drain piping (Gravity drainage)	VP20(I.D.20, O.D.26)	
D	Hole for wiring	(M10)	
E	Suspension bolts		
F	Outside air opening for ducting	(φ 150)(Knock out)	
G	Air outlet opening for ducting	(φ 125)(Knock out)	
H	Inspection hole	(450X450)	

Notes(1) The model name label is attached on the lid of the control box.
(2) Prepare the connecting socket (VP20) on site.

INDOOR UNITS
FDUM50VF

Symbol	Content
A	Gas piping	φ 12.7(1/2")(Flare)
B	Liquid piping	φ 6.35(1/4")(Flare)
C1	Drain piping	VP20(I.D.20, O.D.26)Note(2)
C2	Drain piping (Gravity drainage)	VP20(I.D.20, O.D.26)
D	Hole for wiring	(M10)
E	Suspension bolts	
F	Outside air opening for ducting	(φ 150)(Knock out)
G	Air outlet opening for ducting	(φ 125)(Knock out)
H	Inspection hole	(450X450)
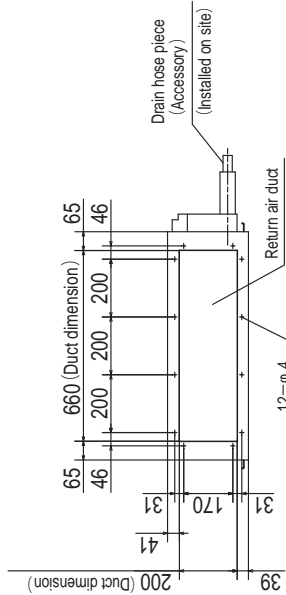
Notes(1) The model name label is attached on the lid of the control box.
(2) Prepare the connecting socket (VP20) on site.

Unit:mm

INDOOR UNITS
FDUM125VF, FDUM140VF

Symbol		Content
A	Gas piping	φ 15.88(5 / 8")(Flare)
B	Liquid piping	φ 9.52 (3 / 8")8Flare)
C1	Drain piping	VP20(I.D20, O.D.26)(Note (2)
C2	Drain piping (Gravity drainage)	VP20(I.D.20, O.D.26)
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(φ 150)(Knock out)
G	Air outlet opening for ducting	(φ 125)(Knock out)
H	Inspection hole	(450X450)

Notes (1) The model name label is attached on the lid of the control box.
(2) Prepare the connecting socket (VP20) on site.

View M

Unit:mm

Drain hose piece (Accessory)
(Installed on site)

Return air duct

Control box

Air supply duct

Hanger plate for suspension bolt

1280 (Duct dimension)
4× 280=1120
280
14—φ 4 Holes for tapping screw

1404 (Suspension bolts pitch)
1368
(Suspension bolts pitch)

1200 (Duct dimension)

INDOOR UNITS
FDUM100VF2

Symbol		Content
A	Gas piping	φ 15.88 (5 / 8") (Flare)
B	Liquid piping	φ 9.52 (3 / 8") 8Flare)
C1	Drain piping	VP25(I.D.25, O.D.32)
C2	Drain piping (Gravity drainage)	VP20(I.D.20, O.D.26)
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(φ 150)(Knock out)
G	Air outlet opening for ducting	(φ 125) (Knock out)
H	Inspection hole	(450X450)

Note (1) The model name label is attached on the lid of the control box.

View M

Unit:mm

Drain hose piece (Accessory)
(Installed on site)

Return air duct

Control box

Air supply duct

Hanger plate for suspension bolt

1280 (Duct dimension)
4 × 280=1120
280
14—φ4 Holes for tapping screw

1404 (Suspension bolts pitch)
1368
(Suspension bolts pitch)
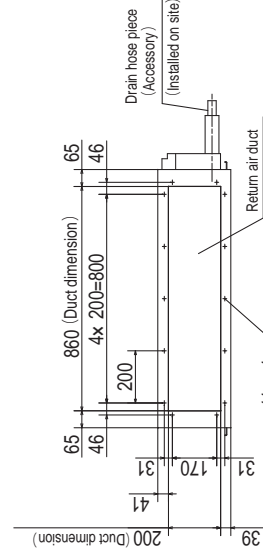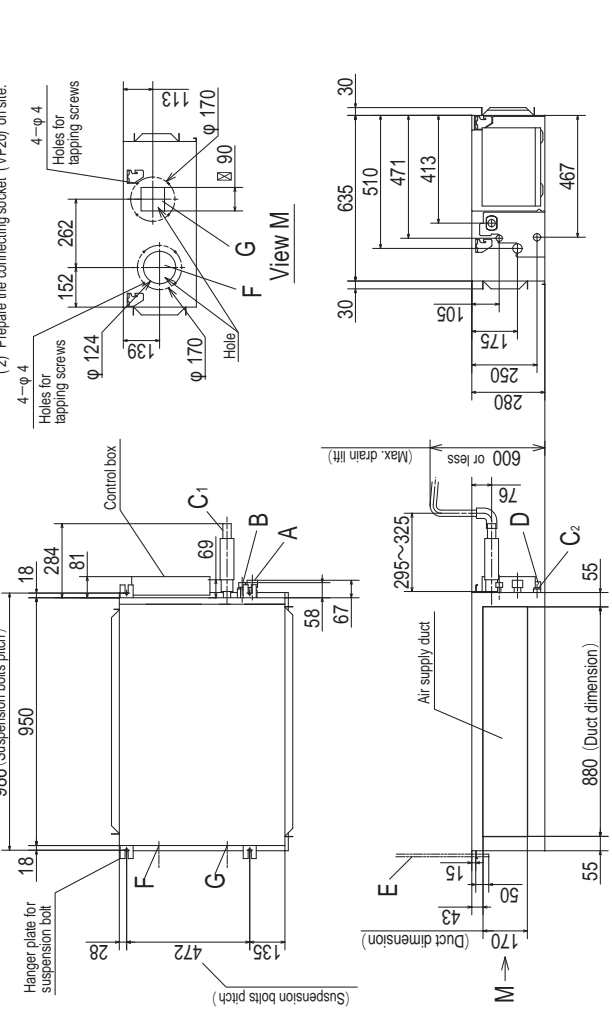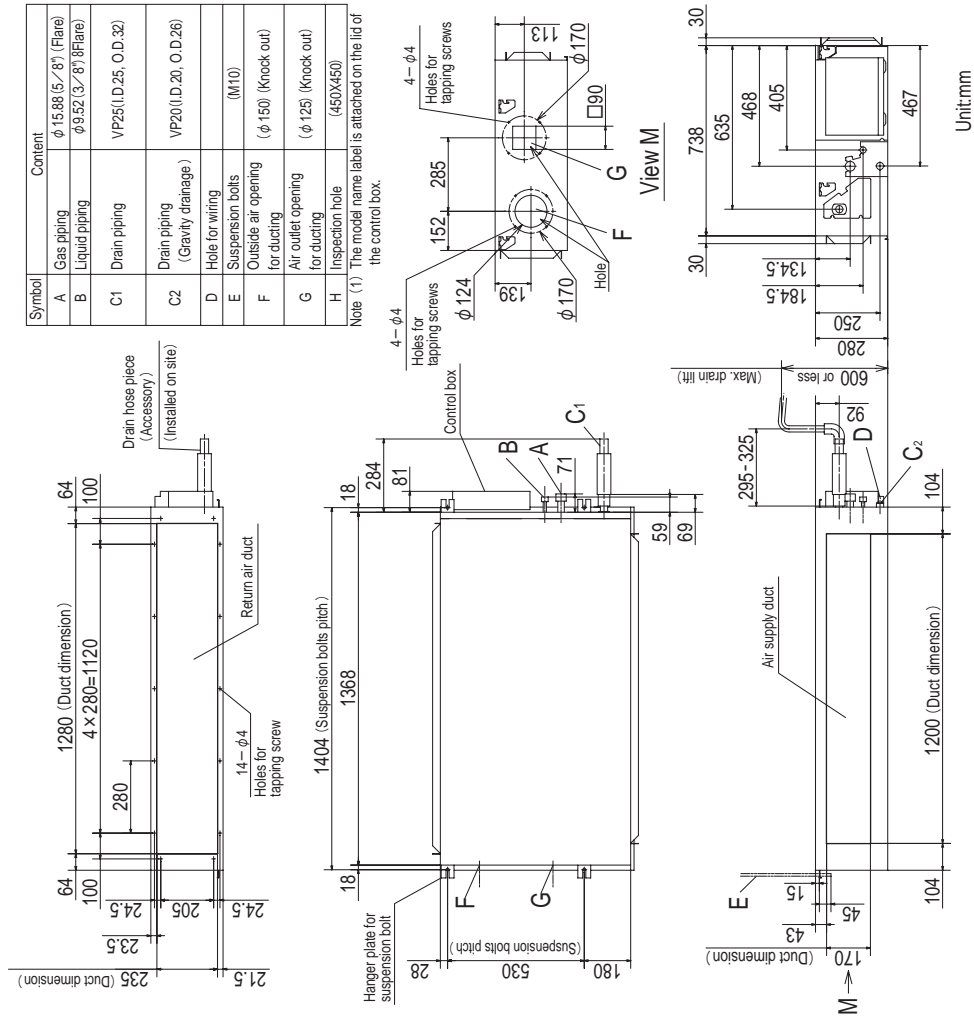
1200 (Duct dimension)

FDTC SERIES

INDOOR UNITS
FDTC50VF

Symbol		Content
A	Gas piping	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)
C	Drain piping	VP20 (I.D.20,O.D.26) Note (2)
D	Hole for wiring	φ25
F	Suspension bolts	(M10 or M8)
G	Air outlet opening for ducting	(Knock out)

Space for installation and service

1000 or more

Obstacle

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

6-φ4 Holes for tapping screws
140
140
60
Hole
100
88
100
G

Decorative panel

Air return grille

Air supply

□413
□700

295~325

600 or less (Max. Drain lift)

Drain hose piece (Accessory) (Installed on site)

Control box

48
21
200
35
67
D

530 (Suspension bolts pitch)
556
223
185
190
326
350
530 (Suspension bolts pitch)

G G G

248
210
35
88
□570
325
145
C F
A B
□132
□192
45 or more
325

Hanger plate for suspension bolt

Notes (1) The model name label is attached on the control box lid.
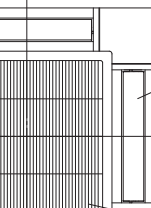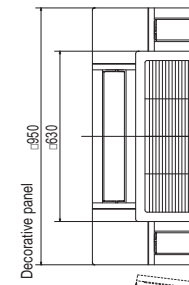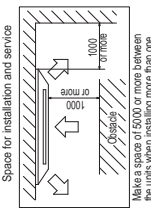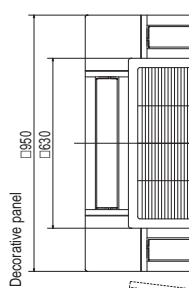(2) Prepare the connecting socket (VP20) on site.
(3) This unit is designed for 2x2 grid ceiling.
   If it is installed on a ceiling other than 2x2 grid ceiling, provide an inspection port on the control box side.
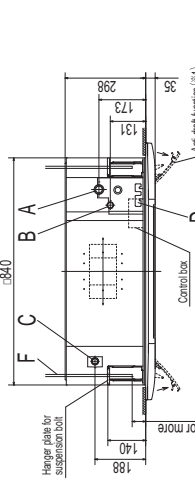
FDT SERIES

INDOOR UNITS
FDT100VG, FDT125VG, FDT140VG

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)

Space for installation and service

1000 or more
1000 or more
Obstacle

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

Decorative panel

□950
□630

Air supply
5-φ4 Holes for tapping screws

Air return grille

□840

Control box

Hanger plate for suspension bolt

Drain hose piece (Accessory) (Installed on site)

860~910 (Ceiling hole size)
Suspension bolts pitch : P1 (770)
Suspension bolts pitch : P2 (770)

420
568
420

245
303
333

H1,2
G
H1,2

112
167
129
38
50
76
65
44
13
40
99
137
G
Hole
Hole

140
130
240
100
100
H2
6-φ4 Holes for tapping screws
Hole
200

140
60
100
140
100
H1
6-φ4 Holes for tapping screws
Hole

B A
D
Control box
F C
Control box

298
173
131
35
Anti draft function (※1)

50 or more
188
140

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

Unit : mm

Suspension bolt pitch range

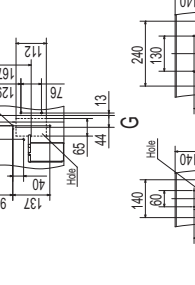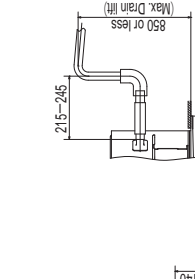| Symbol Pattern	P1	P2
1	770	725~770 725
2	770~800	725

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 (※1) is provided on the panel T-PSAE-5AW-E only.

INDOOR UNITS
FDT60VG, FDT71VG

Symbol	Model	60	71
A	Gas piping	φ12.71 (1 / 2") (Flare)	φ15.88 (5 / 8") (Flare)
B	Liquid piping	φ6.35 (1 / 4") (Flare)	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)	

Space for installation and service

1000 or more
1000 or more
Obstacle

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

Decorative panel

□950
□630

Air supply
5-φ4 Holes for tapping screws

Air return grille

□840

Control box

Hanger plate for suspension bolt

Drain hose piece (Accessory) (Installed on site)

860~910 (Ceiling hole size)
Suspension bolts pitch : P1 (770)
Suspension bolts pitch : P2 (770)

420
568
420

245
303
333

H1,2
G
H1,2
H1,2

112
105
67
38
50
76
65
44
13
40
137
37
G
Hole
Hole

140
130
240
100
100
88
H2
6-φ4 Holes for tapping screws
Hole
200

140
60
100
140
100
88
H1
6-φ4 Holes for tapping screws
Hole

B A
D
Control box
F C
Control box

236
173
131
35
Anti draft function (※1)

50 or more
188
140

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

Unit : mm

Suspension bolt pitch range

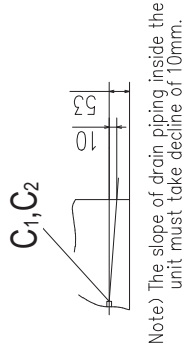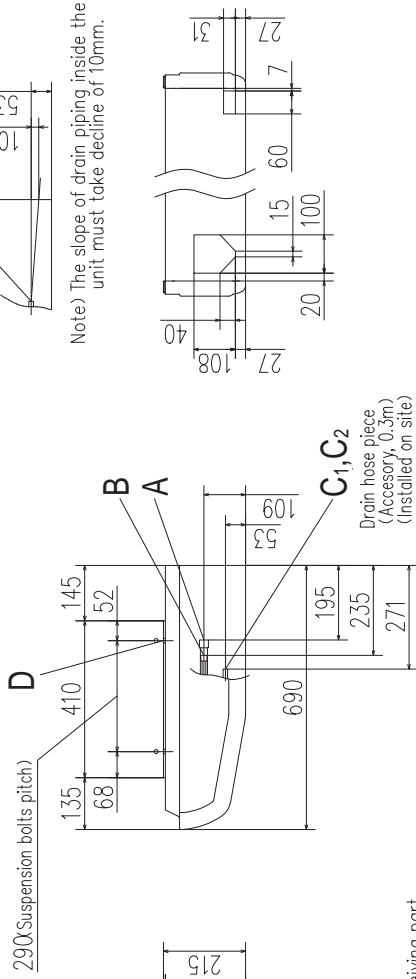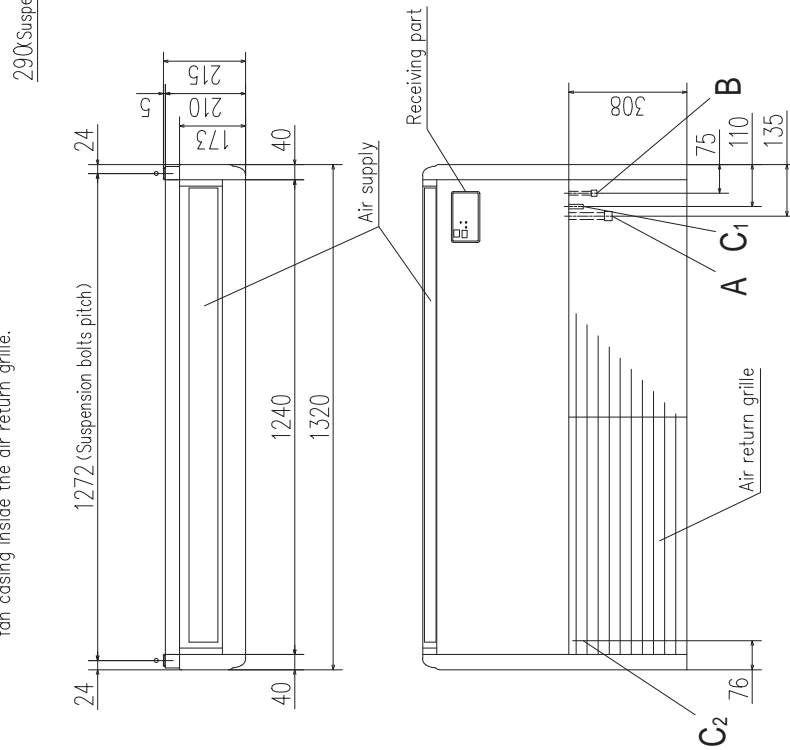| Symbol Pattern	P1	P2
1	770	725~770 725
2	770~800	725

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 (※1) is provided on the panel T-PSAE-5AW-E only.
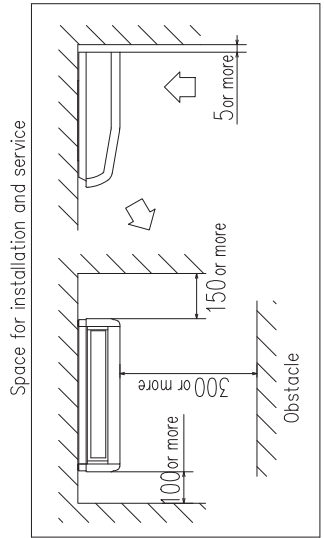
INDOOR UNITS
FDE71VG

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

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

C_1, C_2

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

290(Suspension bolts pitch)

C_1, C_2

B A

D

145
52
410
135
68

53
109
195
235
271
690

Unit:mm

Symbol	Model	Content FDE71
A	Gas piping	$\phi 15.88 (5/8")$ (Flare)
B	Liquid piping	$\phi 9.52 (3/8")$ (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)

1272 (Suspension bolts pitch)

215
210
173
5
24
40

1240
1320

24
40

Air supply

Receiving part

Air return grille

C_2 76

308
B
75
110
135
A C_1

Position of top cutout and back cutout

Hole for drain piping (for left)

175
19
120
120

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.
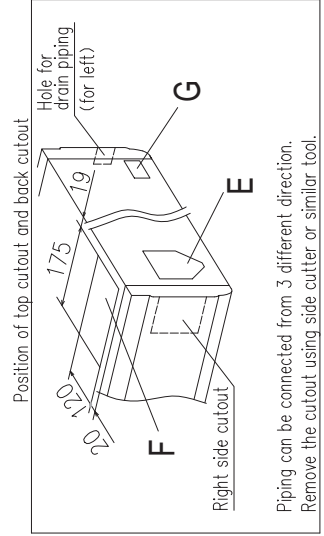
C_1, C_2

53
10

31
31
27
60
7
15
100
20
40
108
27

FDE SERIES

INDOOR UNITS
FDE100VG, FDE125VG, FDE140VG

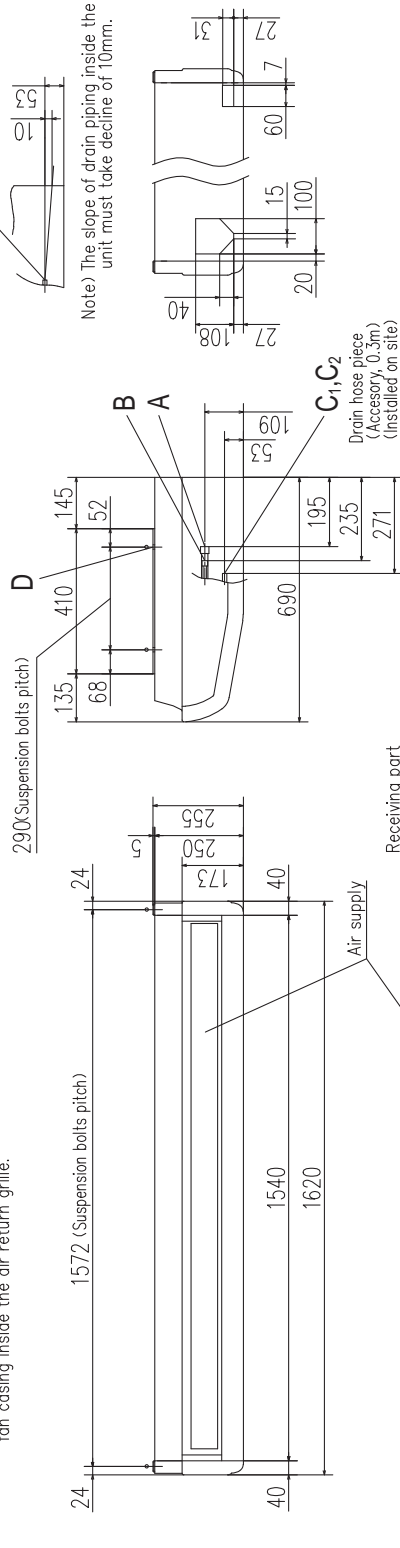Note (1) The model name label is attached on the fan casing inside the air return grille.

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

C_1, C_2

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

290(Suspension bolts pitch)

1572 (Suspension bolts pitch)

Air supply

Receiving part

Air return grille

Space for installation and service

5 or more

150 or more

300 or more

100 or more

Obstacle

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

Position of top cutout and back cutout

Hole for drain piping (for left)

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

Right side cutout

Symbol	Content	
A	Gas piping	ϕ15.88 (5/8") (Flare)
B	Liquid piping	ϕ9.52 (3/8") (Flare)
C1,2	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
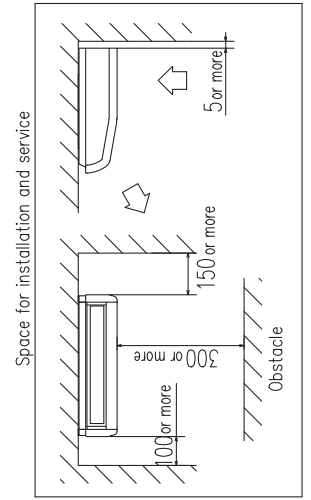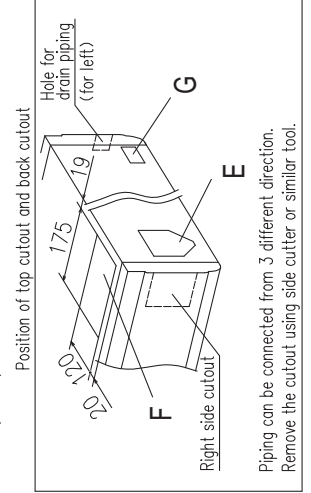
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Date:	
Description:	
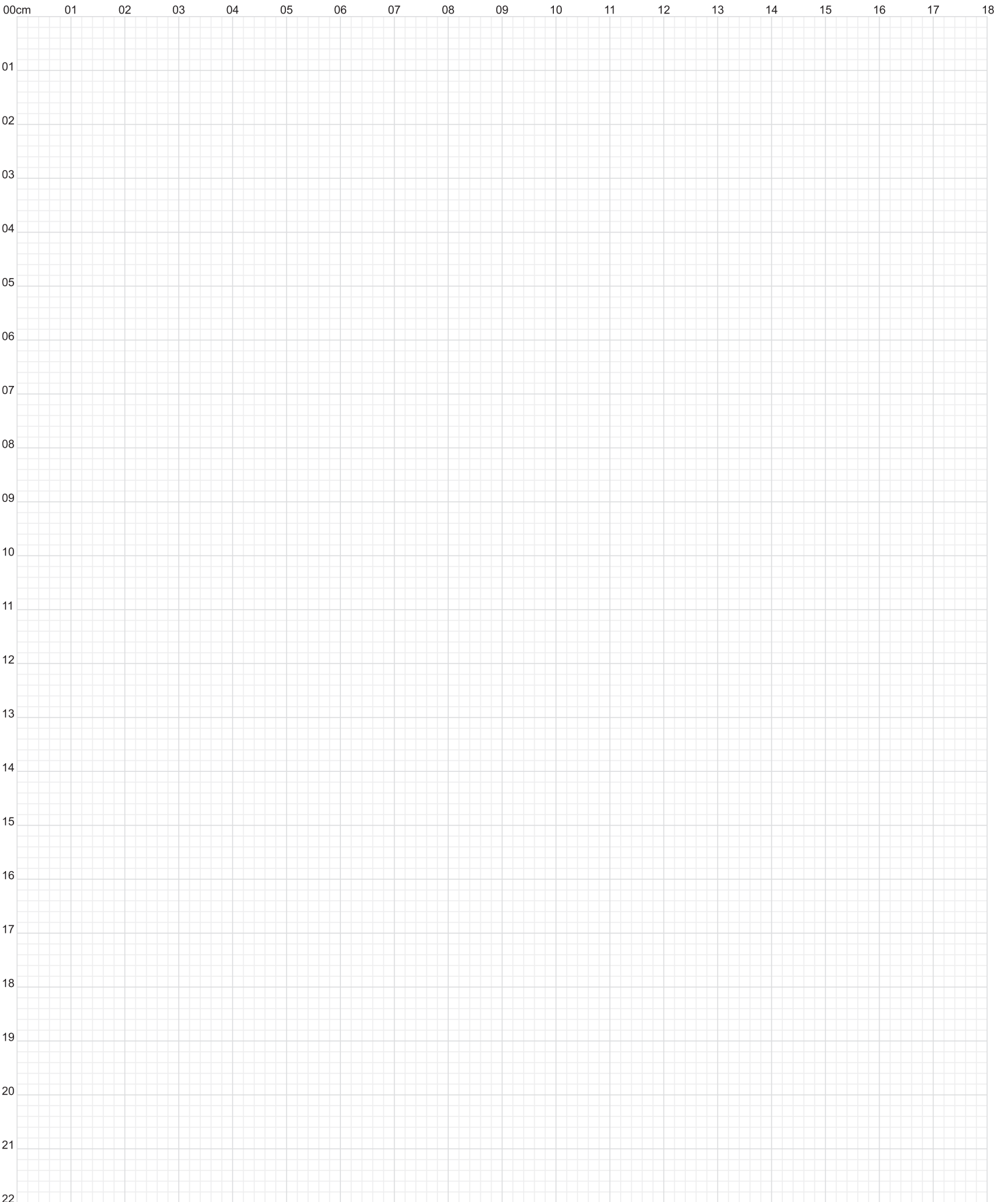
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