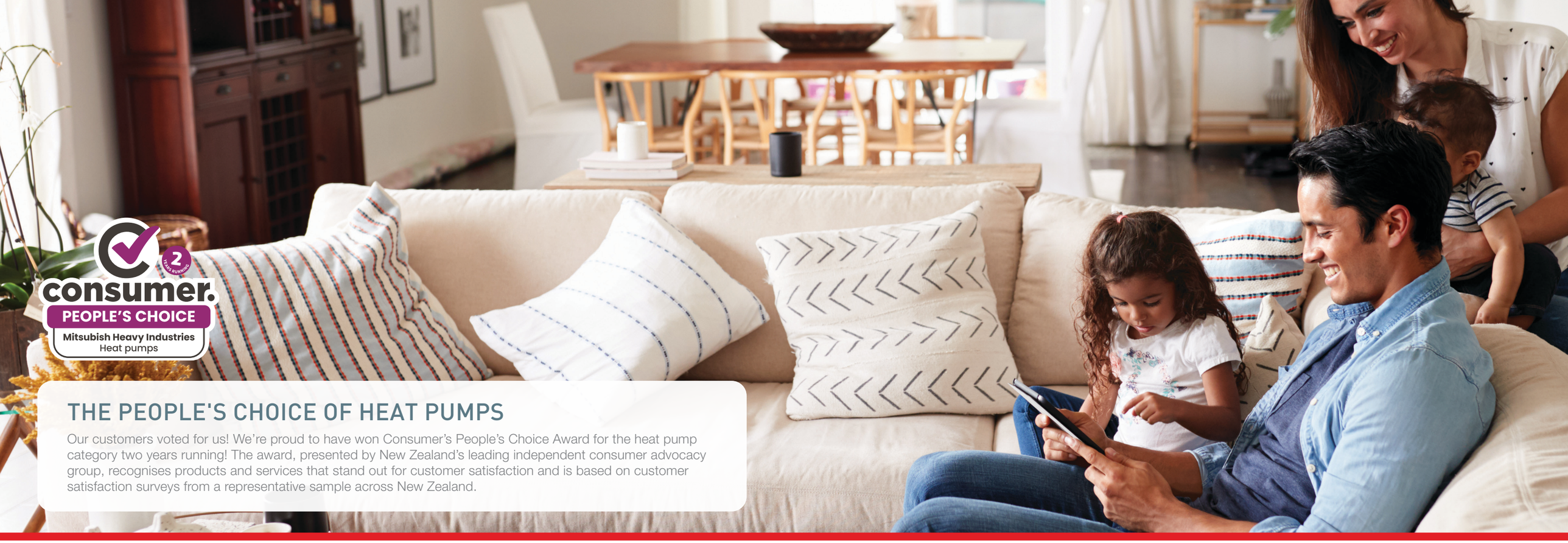
MITSUBISHI HEAVY INDUSTRIES

HEAT PUMPS

consumer. 2 YEARS RUNNING
PEOPLE'S CHOICE
Mitsubish Heavy Industries
Heat pumps

HEATING AND COOLING SOLUTIONS

DUCTED SYSTEMS



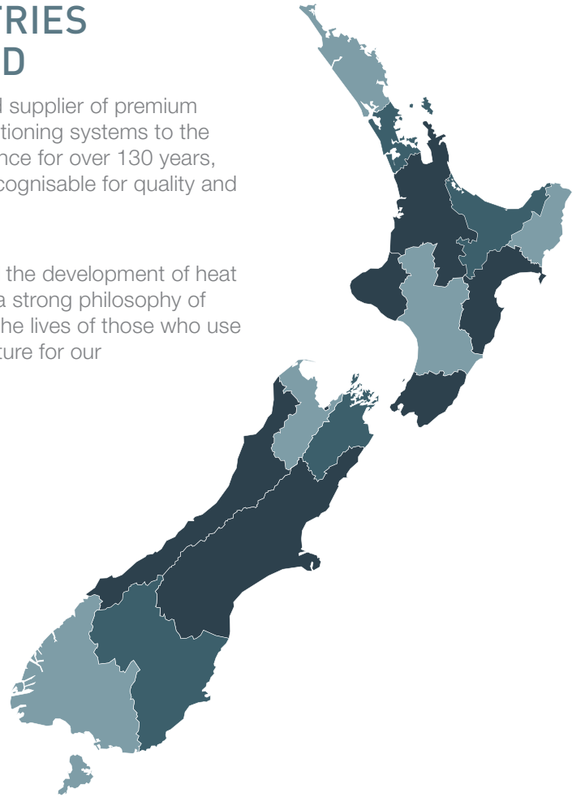
THE PEOPLE'S CHOICE OF HEAT PUMPS

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

MITSUBISHI HEAVY INDUSTRIES HEAT PUMPS NEW ZEALAND

Mitsubishi Heavy Industries Heat Pumps is a trusted supplier of premium residential and commercial heat pump and air conditioning systems to the New Zealand market. Delivering engineering excellence for over 130 years, the Mitsubishi Heavy Industries brand is instantly recognisable for quality and technological advancement.

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



COMMITTED TO QUALITY

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

DEDICATED LOCAL SUPPORT

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

5 YEARS PARTS AND LABOUR WARRANTY

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

ENERGY PERFORMANCE STANDARDS

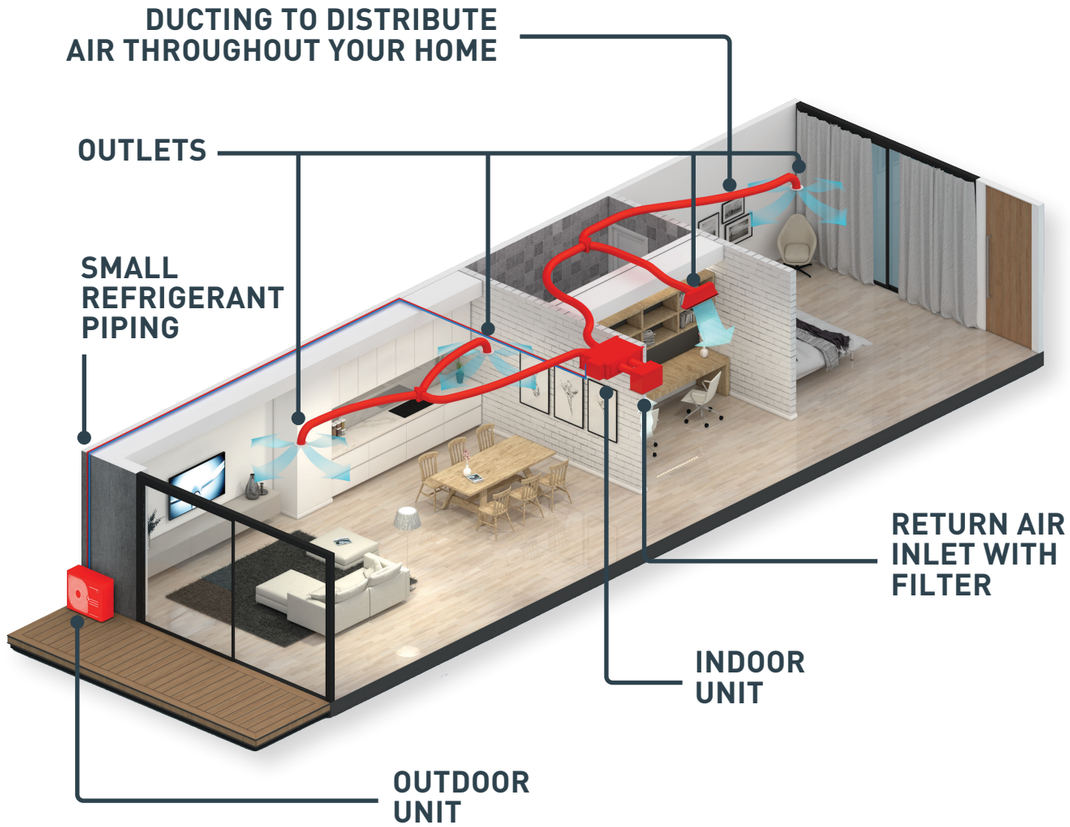
To comply with New Zealand standards and deliver the most efficient solutions possible to our customers, all Mitsubishi Heavy Industries systems meet and exceed the Minimum Energy Performance Standards (MEPS).

MHI Ducted Systems

Our powerful yet quiet reverse cycle ducted systems let you enjoy the comfort of air conditioning in every part of your home or office with one packaged solution. With a discreet, low profile design that can be completely concealed in your ceiling and a variety of capacities and control options available, our ducted systems offer a flexible solution for any new or existing home.

Mitsubishi Heavy Industries ducted systems include an indoor unit (fan coil), outdoor unit (condenser) and controller while an installer will also incorporate insulated ducting, air outlets and a return air inlet with a filter. These components work in unison to offer a complete heating and cooling solution and ensure your comfort all year round.

All Mitsubishi Heavy Industries ducted systems are reverse cycle and have undergone strict and rigorous testing and quality control measures to ensure they are of the highest standards and will withstand the tough Kiwi climate.



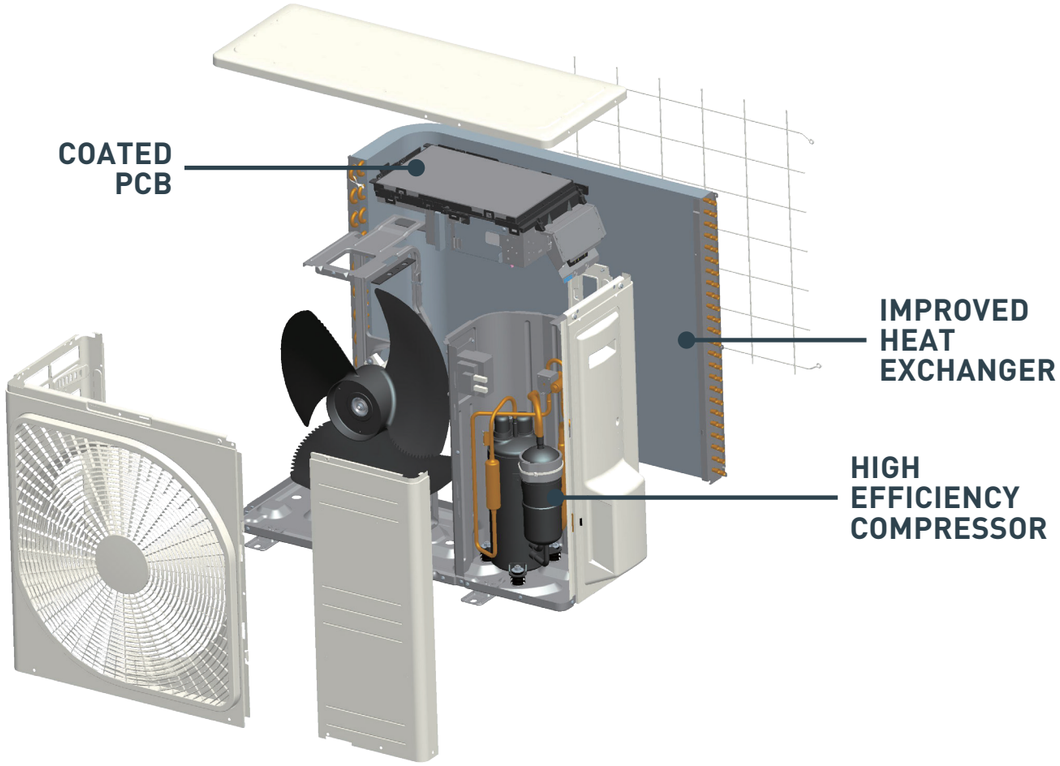
Our Technology

IMPROVED HEAT EXCHANGER

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

COATED PCB

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



HIGH EFFICIENCY COMPRESSOR

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

DC PAM INVERTER

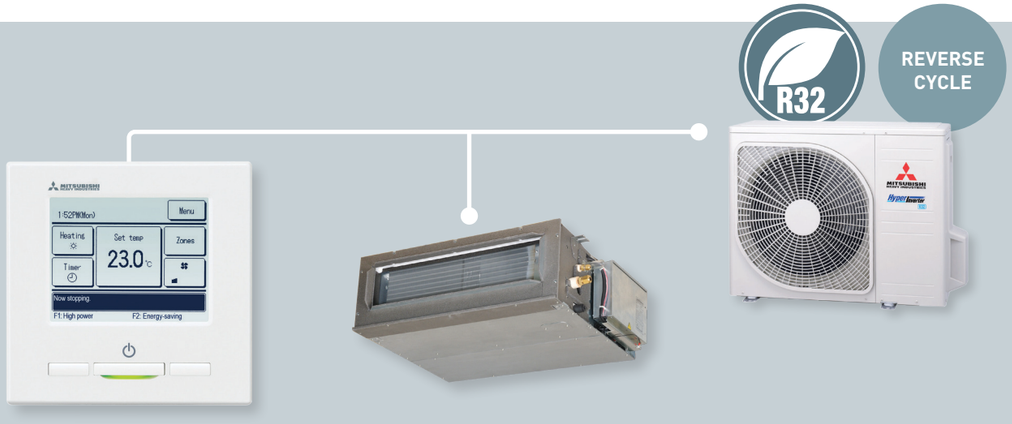
The PAM control used in Mitsubishi Heavy Industries heat pumps helps minimise the loss of electricity and boost the efficiency by allowing the unit to reach the temperature quickly before slowing down the compressor. This allows the unit to save energy while maintaining a comfortable temperature in the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

WIDE OPERATION RANGE

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

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

FDUM Series



*See pg. 11 for full list of features and functions

MEDIUM STATIC PRESSURE

SINGLE PHASE MODEL (5.6KW)

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

5.6kW

Our FDUM series medium static ducted system is quiet, compact and available in a 5.6kW capacity. Incorporating a range of convenient and energy saving features and functions, the FDUM series is the perfect multi-room heating and cooling solution for smaller Kiwi homes.

HYPER-INVERTER TECHNOLOGY

Our advanced hyper-inverter technology allows our ducted systems to reach the desired temperature quicker than ever before. Once the system has reached the set temperature it will ramp down and maintain this closely, switching on only when required - ensuring your comfort all year round and reducing energy consumption.

R32 REFRIGERANT

Due to its superior qualities, R32 refrigerant used in the FDUM series requires less energy to achieve the desired temperature and has nearly a 70% lower Global Warming Potential when compared to the R410A refrigerant.

QUIET OPERATION

The FDUM series boasts a super quiet operation level of 26 dB (A) on low fan speed. Combined with the unit's Silent Mode, the FDUM is perfect for bedrooms and ensures a good night's sleep for you and your family.

BUILT-IN DRAIN PUMP

With a built-in drain pump the FDUM series allows greater flexibility during installation, making it the perfect solution for applications with limited ceiling space.

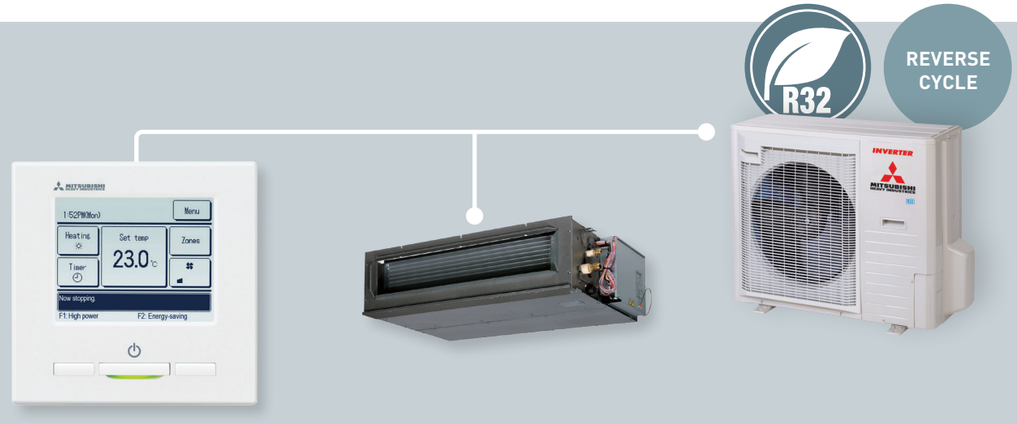
SRC50-60ZSXA-W outdoor unit shown.

OTHER CONTROL OPTIONS

(SOLD SEPARATELY)

Wi-Fi | WIRELESS

FDU Series



*See pg. 11 for full list of features and functions

MED/HIGH STATIC PRESSURE

SINGLE PHASE MODELS (7.1 KW - 14.0KW)
THREE PHASE MODELS (12.5KW - 14.0KW)

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

7.1kW | 10.0kW | 12.1kW | 12.5kW | 14.0kW

Our FDU series of slimline ducted systems are a quiet and discreet solution for multiple rooms. Coming in a range of capacities ranging from 7.1kW up to 14kW and incorporating a range of convenient features and functions, the FDU series is the perfect heating and cooling solution for any sized Kiwi home.

QUIET OPERATION

Thanks to our highly efficient DC fan motor, the FDU series boasts some of the quietest operation levels on the market - with our 7.1kW unit achieving a market leading low of 25 dB (A) on low fan speed. Combined with the unit's Silent Mode, the FDU series ensures no interruptions to room acoustics and a good night's sleep for you and your family.

INCREASED ENERGY EFFICIENCY

With an improved heat exchanger in the outdoor unit, boosting refrigerant distribution throughout the system, coupled with our highly efficient DC fan motor within the indoor unit, the FDU series boasts one of the industry leading energy efficiencies which means reduced running costs for your home.

BUILT-IN DRAIN PUMP

With a built-in drain pump the FDU series allows greater flexibility during installation, making it the perfect solution for applications with limited ceiling space.

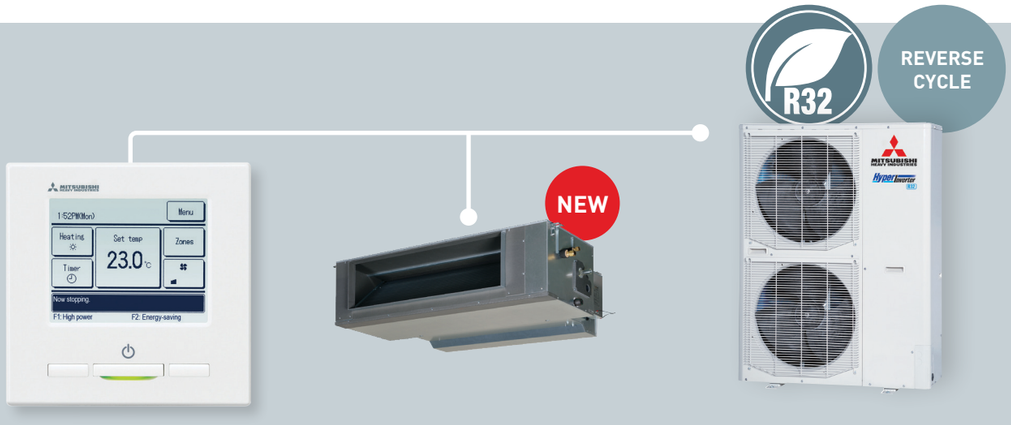
FDCA100VNP-W outdoor unit shown.

OTHER CONTROL OPTIONS

(SOLD SEPARATELY)

Wi-Fi | WIRELESS

FDUA Series



*See pg. 11 for full list of features and functions

HIGH STATIC PRESSURE

SINGLE PHASE MODELS (10.0KW - 16.0KW)
THREE PHASE MODELS (12.5KW - 23.5KW)

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

10.0kW | 12.1kW | 12.5kW | 14.0kW |16.0kW | 20.0kW | 23.5kW

Our FDUA series of ducted systems are a quiet and discreet solution for multiple rooms. Coming in a range of capacities ranging from 10kW up to 23.5kW and incorporating a range of convenient features and functions, the FDUA is the perfect heating and cooling solution for any sized Kiwi home.

INCREASED ENERGY EFFICIENCY

With an improved heat exchanger in the outdoor unit, boosting refrigerant distribution throughout the system, coupled with our highly efficient DC fan motor the FDUA series boasts impressive energy efficiencies which means reduced running costs for your home.

COMPACT INDOOR UNIT DESIGN

A compact indoor unit allows the FDUA series to be easily installed in a variety of different applications while a splittable design for 14kW and 16kW models, allows for the indoor unit to be separated into two parts for easier installation.

QUIET OPERATION

Thanks to our highly efficient DC fan motor, the FDUA series boasts quiet operation levels. Combined with the unit's Silent Mode, the FDUA series ensures no interruptions to room acoustics and a good night's sleep for you and your family.

BUILT-IN DRAIN PUMP

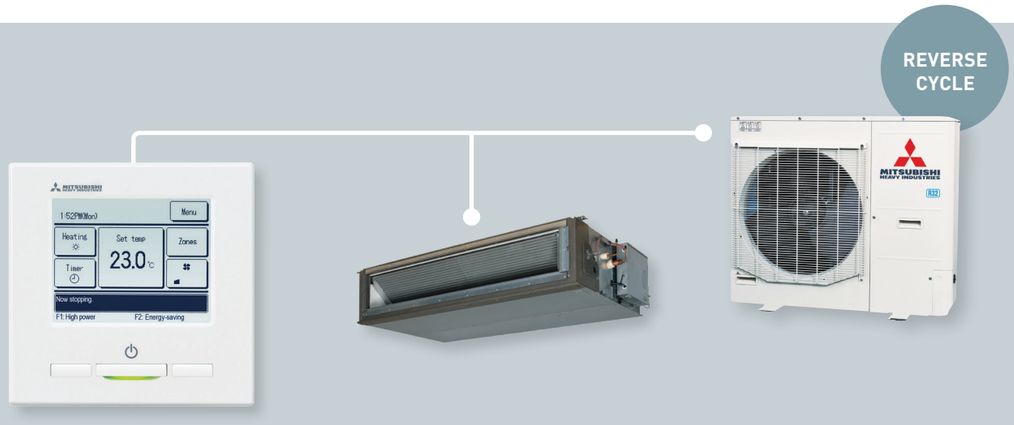
With a built-in drain pump the FDUA allows greater flexibility during installation, making it the perfect solution for applications with limited ceiling space.

FDCA140VNX-W/FDCA140VSX-W outdoor unit shown.
Splittable design applies to 14kW and 16kW models.

OTHER CONTROL OPTIONS
(SOLD SEPARATELY)

Wi-Fi WIRELESS

KX Series



*See pg. 11 for full list of features and functions

HIGH STATIC PRESSURE

SINGLE PHASE MODELS (9.0KW - 15.2KW)
THREE PHASE MODELS (14.0KW - 28.0KW)

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

9.0kW | 11.2kW | 14.0 kW | 15.2kW | 22.4kW | 28.0kW

Our KX series of ducted systems offer a durable and high performance heating and cooling solution. Coming in a range of capacities ranging from 9.0kW up to 28.0kW and incorporating VRF technology as well as a range of convenient features, KX compact series is the perfect heating and cooling solution for larger Kiwi homes.

VRF TECHNOLOGY

Traditionally used in larger, commercial projects, the KX compact series incorporates VRF (Variable Refrigerant Flow) technology to deliver high performance.

COMPACT OUTDOOR UNIT

A compact outdoor unit offers additional flexibility with installation by allowing the outdoor unit to fit within smaller spaces.

BLUE FIN™ TECHNOLOGY

A specially formulated layer applied to internal components helps reduce corrosion and protect the outdoor unit's internal aluminium parts from the harsh Kiwi weather conditions.

BUILT-IN DRAIN PUMP

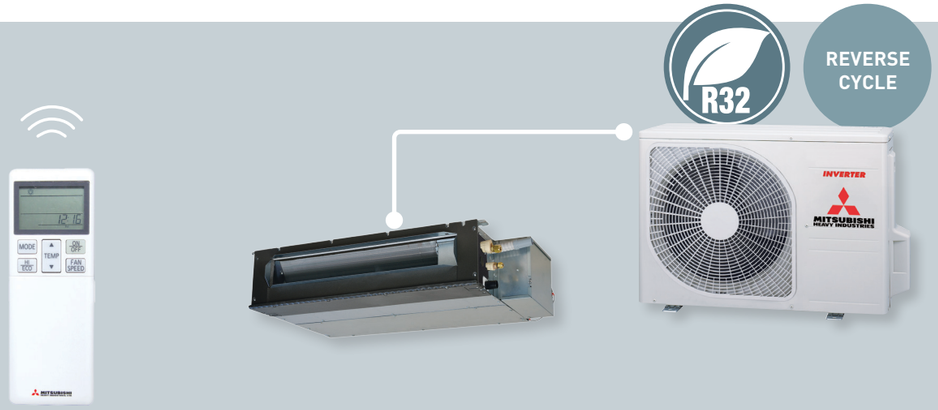
With a built-in drain pump the KX series allows greater flexibility during installation, making it the perfect solution for applications with limited ceiling space.

FDC90-155KXZEN(S)1-W outdoor unit shown.
Not compatible with FlexiZone zoning solution.

OTHER CONTROL OPTIONS
(SOLD SEPARATELY)

Wi-Fi WIRELESS

AKARI™ Series



*See pg. 11 for full list of features and functions

BULKHEAD SYSTEM

SINGLE PHASE MODELS (2.5KW - 5.6KW)

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

2.5kW | 3.5 kW | 5.0kW | 5.6kW

Our Akari™ series of low profile bulkhead systems are designed to sit within your ceiling space and distribute air via discreet grilles. These compact units require no ducting and are perfect for renovated spaces and applications such as apartments where space is at a premium. They deliver a quiet, efficient and integrated heating and cooling solution.

SUPER SLIM LOW PROFILE DESIGN

With a super slim, low-profile design measuring only 200mm in height, the Akari™ series offers the perfect solution for apartments or applications where ceiling space is limited and the indoor unit needs to be fitted in a concealed area.

SUPER QUIET OPERATION

The Akari™ series offers some of the quietest operation levels on the market achieving 24 dB(A) on low fan mode - perfect for bedrooms.

BUILT-IN DRAIN PUMP

Capitalising on Mitsubishi Heavy Industries extensive experience in drain pump technology, the Akari™ series features a built-in condensation drain pump for easier installation.

HI 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.

SRC25-35ZSA-W outdoor unit shown.

OTHER CONTROL OPTIONS

(SOLD SEPARATELY)

Wi-Fi | WIRED

Features and Functions

	FUNCTION		DESCRIPTION	FDU	FDUA	FDUM	KX	AKARI
AIRFLOW		Automatic Fan Speed	On-board microcomputer continuously monitors the room's air temperature and adjusts the air flow automatically.	■	■	■	■	■
		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	Alerts you to when the filter needs to be cleaned.	■	■	■	■	■
		Outside Air Intake	Allocated outside air inlet connection available on indoor unit to provide fresh air into the room, avoiding the constant recycling of internal air. **	■	■	■	■	
		Self-Clean Operation	Dries the indoor unit components by running the fan on ultra-low mode, preventing the growth of mould. Designed to be run regularly after use.					■
ENERGY SAVING		Set Temperature Auto Return*	Allows you to program a preferred set temperature that the unit will return to each time it is operated.	■	■	■	■	
		Home Leave Operation*	Will maintain a moderate indoor temperature, avoiding extremely hot or cool temperatures. Perfect for when you're away on holidays.	■	■	■	■	
		Eco Operation	The unit operates at a slightly reduced capacity to reduce power consumption while maintaining a comfortable room temperature.	■	■	■	■	■
COMFORT& CONVENIENCE		Hi 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.	■	■	■	■	■
		Dry Operation	Reduces humidity by removing moisture from the air without effecting the indoor temperature.	■	■	■	■	■
		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.	■	■	■	■	■
		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).	■	■	■	■	
TIMERS		On/Off Timer	Set your unit to turn on and off once, at specific times, within a 24 hour period. Unit will then turn on and off at the specified times every day.	■	■	■	■	■
		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	This function allows you to set a per-determined amount of time between 30 and 240 mins that your unit will operate for before switching off.	■	■	■	■	■
		Night Setback	Designed for the colder seasons, this function ensures the room temperature is kept at around 10℃, even while unoccupied.					■
		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.	■	■	■	■	
MAINTENANCE & PREVENTION		Child Lock	Locks the remote control to prevent little ones from changing functions and other settings. Useful for families with curious young children.					■
		Self-Diagnostics	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.	■	■	■	■	■
		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. (Not applicable to all models)	■	■	■	■	
		Built-in Drain Pump	The built-in drain pump, which includes a lift of 600 or 850mm, allows greater flexibility with installation, offering a great solution for applications with limited space.	■	■	■	■	■
		Auto Restart Function	Automatically restarts the unit in the same operating mode if it suffers a loss of power. (Disabled for some models by default)	■	■	■	■	■

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

Control Options

RC-EXZ3A / RC-EXZ3D WIRED CONTROLLER

- 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.
- ON/OFF Control for up to 4 (RC-EXZ3A) or 8 zones (RC-EXZ3D).
- Multi-language display

*RC-EXZ3A controller shown.
**Requires SC-BIKN2-E kit (sold separately) for use with bulkhead systems.
***Function limitations may apply.

WIRELESS CONTROLLER

- LCD Display.
- Control the set temperature, operation mode and fan speed.
- Access timer and scheduling functions.

*Wireless controller from RCN-KIT4-E2 shown. Standard with bulkhead systems.
**Requires RCN-KIT4-E2 wireless kit (sold separately) for use with ducted systems.
***Function limitations may apply.

WI-FI

- Control your system using your smart device (iPhone, iPad, Android) or internet browser via AC Cloud Control app.
- Control the set temperature, operation mode and fan speed remotely.
- Control your system using Voice Commands via Google or Amazon smart speaker devices.
- Set up ‘favourite’ scenes and activate them with a single tap.
- Set your system to respond to the weather, you arriving home, calendar events + more**.
- Receive instant notifications and email updates and create usage logs**

*Requires MH-RC-WIFI-1B Wi-Fi adaptor (sold separately) for use with ducted systems.
*Requires MH-AC-WIFI-1 Wi-Fi adaptor (sold separately) for use with bulkhead systems.
**In conjunction with IFTTT and other apps (must be downloaded separately).
Some additional functions including zone control are not available via AC Cloud Control app.
In some applications, a 12V DC external power supply may be required for MH-RC-WI-FI-1B.

works with the Google Assistant
amazon alexa
Siri

GET IT ON Google Play
Download on the App Store
IFTTT

AC Cloud Control

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.

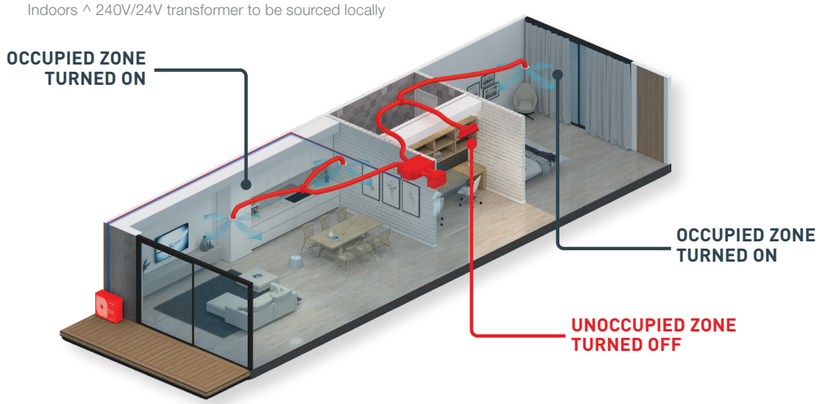
FlexiZone Zoning Solution

FLEXIZONE®

ZONE RELAY MODULES

- Individual on/off control of up to 4 or 8 zones when used in conjunction with our zoning solutions MH-4ZRM and MH-8ZRM Zone Relay Board*.
- Integrate with MHI Heat Pumps ducted systems**
- Compatible with 24VAC zone dampers^
- Use RC-EXZ3A to control up to 4 zones and RC-EXZ3D to control up to 8 separate zones

RC-EXZ3D Controller shown
*MHI zoning solution required zone relay board MH-4ZRM (4-Zone) or MH-8ZRM (8-zone), sold separately.
**FlexiZone not compatible with KX 1:1 Ducted System. MH-8ZRM only compatible with FDU and FDUA Ducted Indoors ^ 240V/24V transformer to be sourced locally



Airzone Zoning Solution

Easily integrated into any MHI ducted system the advanced Airzone zoning solution offers the ultimate level of comfort by providing complete temperature control over each individual zone of your home or office.

AIRZONE

AIRZONE ZONE CONTROLLER

- Individual temperature and on/off control of up to 10 zones when used in conjunction with Airzone zoning solution*.
- Control the set temperature, operation mode and fan speed.
- Turn unoccupied zones off to save energy.
- Control your system using your smart device (iPhone, iPad, Android) or internet browser via easy to use Airzone app.
- Access timer and scheduling functions.

Blueface controller shown (AZVAFBLUEFACECB)
*Airzone zoning solution includes motorised dampers, Airzone control board and webserver (sold separately)

PRODUCT SPECIFICATIONS

FDUM & FDU SERIES

CAPACITY				5.6 KW	7.1 KW	10.0KW	10.0 KW	12.1 KW	12.5 KW	14.0 KW	12.5 KW	14.0 KW
Set				FDUM60ZSXAWVH	FDU71AVNXWVH	FDU100AVNPWVH	FDU100AVNAWVH	FDU125AVNPWVH	FDU125AVNXWVH	FDU140AVNXWVH	FDU125AVSXWVH	FDU140AVSXWVH
Indoor				FDUM60VH	FDU71VH	FDU100VH	FDU100VH	FDU125VH	FDU125VH	FDU140VH	FDU125VH	FDU140VH
Outdoor				SRC60ZSXA-W	FDCA71VNX-W	FDCA100VNP-W	FDCA100VNA-W	FDCA125VNP-W	FDCA125VNX-W	FDCA140VNX-W	FDCA125VSX-W	FDCA140VSX-W
Power Source (Outdoor Unit)											3 Phase 380-415V 50Hz	
*Operation Data	Nominal Capacity Range	Cooling T1	kW	5.6 (1.1-6.3)	7.1 (3.2-8.0)	10 (2.1-10.2)	10.0 (4.0-11.2)	12.1 (5.0-12.1)	12.5 (3.5-14.0)	14.0 (3.5-16.0)	12.5 (3.5-14.0)	14.0 (3.5-16.0)
		Heating H1		6.7 (0.6-7.1)	8.0 (3.6-9.0)	10 (1.7-10.4)	11.2 (4.0-12.5)	12.1 (4.0-13.3)	14.0 (2.7-17.0)	16.0 (2.7-18.0)	14.0 (2.7-18.0)	16.0 (2.7-20.0)
		Heating H2		4.80	7.40	7.60	10.00	7.90	13.10	15.50	13.10	15.50
	Power Consumption	Cooling T1		1.53	1.77	3.08	2.99	3.85	3.49	4.22	3.49	4.22
		Heating H1		1.75	1.78	2.45	2.66	3.28	3.61	4.22	3.61	4.22
	Max Power Consumption			2.90	4.11	4.46	6.40	4.75	7.10	7.10	8.90	8.90
	Running Current	Cooling T1	A	6.8	7.9	13.1	14.3	16.2	15.3	18.5	5.6	6.7
		Heating H1		7.8	7.9	10.4	12.7	13.8	15.9	18.5	5.9	6.8
	Inrush Current, Maximum Current			5, 15	5, 20	5, 19	5, 26	5, 20	5, 28	5, 30	5, 16	5, 17
	EER	Cooling T1		3.64	4.01	3.25	3.35	3.14	3.58	3.32	3.58	3.32
	COP	Heating H1		3.83	4.49	4.08	4.21	3.69	3.88	3.79	3.88	3.79
	Sound Power Level (JS C9612)	Outdoor	dB(A)	65	66	68	70	73	69	69	68	69
	Sound Pressure Level (JS C9612)	Indoor		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:45 Hi:40 Me:34 Lo:29	P-Hi:47 Hi:40 Me:35 Lo:30	P-Hi:45 Hi:40 Me:34 Lo:29	P-Hi:47 Hi:40 Me:35 Lo:30
		Outdoor		54	51	56	55	57	54	54	54	54
External Dimensions (HXWXD)		Indoor	mm	280x950x635	280x950x635	280x1370x740	280×1370×740	280×1370×740	280×1370×740	280×1370×740	280×1370×740	280×1370×740
		Outdoor		640x800(+71)x290	750x880(+88)x340	750x880(+88)x340	845x970x370	845x970x370	1300x970x370	1300x970x370	1300x970x370	1300x970x370
Net Weight		Indoor	Kg	34	34	54	54	54	54	54	54	54
		Outdoor		45	60	57	77	73	97	97	99	99
Supply Air Connection			mm	170x880	170x880	170x1200	170x1200	170x1200	170x1200	170x1200	170x1200	170x1200
Return Air Connection				200x860	200X740	235x1280	235x1280	235x1280	235x1280	235x1280	235x1280	235x1280
External Static Pressure (Max)			Pa	100	200	200	200	200	200	200	200	200
Airflow		Indoor (Cooling)	l/s	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: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
		Indoor (Heating)										
Refrigerant (R32)		Quantity	kg	1.3	2.75	1.7	3.3	2.25	4.0	4.0	4.0	4.0
		Pre Charged To Pipe Length	m	15	30	15	30	15	30	30	30	30
Installation Data	Refrigerant Piping	Liquid Line	mm	Ø6.35 (1/4")	Ø9.52 (3/8")	Ø6.35 (1/4")**	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø9.52 (3/8")
		Gas Line		Ø12.7 (1/2")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")
	Connection Method											
	Maximum Pipe Length (One Way)		m	30	50	30	50	30	100	100	100	100
	Max vertical height diff. between O.U. and I.U.			20 (O.U. above I.U.) / 20 (O.U. below I.U.)	30 (O.U. above I.U.) / 15 (O.U. below I.U.)	20 (O.U. above I.U.) / 20 (O.U. below I.U.)	50 (O.U. above I.U.) / 15 (O.U. below I.U.)	20 (O.U. above I.U.) / 20 (O.U. below I.U.)	50 (O.U. above I.U.) / 15 (O.U. below I.U.)			
Controller				RC-E5, RC-EXZ3A(D), RCH-E3 or RCN-KIT4-E2								
Motion Sensor (Optional)				LB-KIT2								
Demand response (AS4755)				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Outdoor air temperature (upper, lower limits)		Cooling	℃	-15 to 46	-15 to 50	-15 to 46	-15 to 50	-15 to 46	-15 to 50	-15 to 50	-15 to 50	-15 to 50
		Heating		-20 to 20	-20 to 20	-15 to 20	-20 to 20	-15 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 27ºCDB, 19ºCWB, and outdoor temp. of 35ºCDB. Heating: Indoor temp. of 20ºCDB, and outdoor temp. of 7ºCDB, 6ºCWB.
**Reducer set Ø9.52 (3/8") --> Ø6.35 (1/4") is included in the outdoor unit as accessory for FDCA100VNP-W

PRODUCT SPECIFICATIONS

FDUA SERIES

CAPACITY				10.0 KW	10.0KW	12.1KW	12.5KW	14.0KW	16.0KW	10KW	12.5KW	14.0KW	16.0KW	20.0KW	23.5KW
Set				FDUA100AVNPWVH	FDUA100AVNAWVH	FDUA125AVNPWVH	FDUA125AVNXWVH	FDUA140AVNXWVH	FDUA160AVNXWVH	FDUA100AVSAWVH	FDUA125AVSXWVH	FDUA140AVSXWVH	FDUA160AVSAWVH	FDUA200AVSAWVH	FDUA250AVSAWVH
Indoor				FDUA100VH	FDUA100VH	FDUA125VH	FDUA125VH	FDUA140VH	FDUA160VH	FDUA100VH	FDUA125VH	FDUA140VH	FDUA160VH	FDUA200VH	FDUA250VH
Outdoor				FDCA100VNP-W	FDCA100VNA-W	FDCA125VNP-W	FDCA125VNX-W	FDCA140VNX-W	FDCA160VNX-W	FDCA100VSA-W	FDCA125VSX-W	FDCA140VSX-W	FDCA160VSA-W	FDCA200VSA-W	FDCA250VSA-W
Power Source (Outdoor Unit)				1 Phase 240V 50Hz						3 Phase 380-415V 50Hz					
*Operation Data	Nominal Capacity Range	Cooling T1	kW	10 (2.1-10.2)	10.0 (4.0-11.2)	12.1 (5.0-12.1)	12.5 (5.0-14.0)	14.0 (5.0-14.5)	16.0 (5.0-17.0)	10.0 (4.0-11.2)	12.5 (5.0-14.0)	14.0 (5.0-14.5)	16.0 (6.9-20.0)	20.0 (6.9-28.0)	23.5 (6.9-28.0)
		Heating H1		10 (1.7-10.4)	11.2 (4.0-12.5)	12.1 (4.0-13.3)	14.0 (4.0-17.0)	16.0 (4.0-18.0)	18.0 (4.0-21.0)	11.2 (4.0-12.5)	14.0 (4.0-18.0)	16.0 (4.0-18.0)	18.0 (5.5-22.4)	22.4(5.5-31.5)	28.0 (5.5-31.5)
		Heating H2		7.60	10.00	7.90	14.20	15.50	15.00	10.00	14.20	15.50	16.1	21.0	21.1
	Power Consumption	Cooling T1		2.99	3.05	3.85	3.83	4.02	5.00	3.05	3.83	4.02	4.68	5.78	7.7
		Heating H1		2.57	2.87	3.28	3.68	4.19	5.00	2.87	3.68	4.19	4.6	5.44	7.7
	Max Power Consumption			4.46	6.40	4.75	6.13	5.77	7.1	10.20	7.66	7.26	11.20	11.20	11.2
	Running Current	Cooling T1	A	13.2	14.7	16.2	17.0	17.8	22.00	4.7	6.4	6.7	7.5	9.1	12
		Heating H1		11.4	14.0	13.8	16.3	18.6	22.00	4.4	6.2	6.9	7.5	8.6	12
	Inrush Current, Maximum Current			5, 19	5, 26	5, 20	5, 29	5, 30	5, 30	5, 17	5, 18	5, 19	5, 24	5, 27	5, 27
	EER	Cooling T1		3.34	3.28	3.14	3.26	3.48	3.16	3.28	3.26	3.48	3.42	3.46	3.16
	COP	Heating H1		3.89	3.90	3.69	3.80	3.82	3.60	3.90	3.80	3.82	3.91	4.12	3.67
	Sound Power Level (JS C9612)	Outdoor	dB(A)	68	69	73	68	69	69	69	68	69	73	73	73
	Sound Pressure Level (JS C9612)	Indoor		P-Hi:43 Hi:42 Me:40 Lo:37	P-Hi:43 Hi:42 Me:40 Lo:37	P-Hi:46 Hi:44 Me:42 Lo:38	P-Hi:46 Hi:44 Me:42 Lo:38	P-Hi:48 Hi:47 Me:43 Lo:38	P-Hi:48 Hi:47 Me:43 Lo:41	P-Hi:43 Hi:42 Me:40 Lo:37	P-Hi:46 Hi:44 Me:42 Lo:38	P-Hi:48 Hi:47 Me:43 Lo:38	P-Hi:48 Hi:47 Me:43 Lo:41	P-Hi:52 Hi:50 Me:47 Lo:45	P-Hi:52 Hi:50 Me:47 Lo:45
		Outdoor		56	55	57	54	54	54	55	54	54	58	58	58
External Dimensions (HXWXD)		Indoor	mm	398x1150x650	398x1150x650	398x1150x650	398x1150x650	398x1450x930	398x1450x930	398x1150x650	398x1150x650	398x1450x930	398x1450x930	379x1600x893	379x1600x893
		Outdoor		750×880(+88)×340	845x970x370	845x970x370	1300x970x370	1300x970x370	1300x970x370	845x970x370	1300x970x370	1300x970x370	1505x970x370	1505x970x370	1505x970x370
Net Weight		Indoor	Kg	52	52	52	52	66	66	54	52	66	66	88	88
		Outdoor		57	77	73	97	97	97	78	99	99	145	145	145
Supply Air Connection			mm	348x898	348x898	348x898	348x898	298x1064	298x1064	348x898	348x898	298x1064	298x1064	250x1450	250x1450
Return Air Connection				348x898	348x898	348x898	348x898	2 X Ø400	2 X Ø400	348x898	348x898	2 X Ø400	2 X Ø400	250x1450	250x1450
External Static Pressure (Max)			Pa	200	200	200	200	150	150	200	200	150	150	200	200
Airflow		Indoor (Cooling)	l/s	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:717 Hi:650 Me:600 Lo:500	P-Hi:1000 Hi:867 Me:733 Lo:600	P-Hi:1000 Hi:867 Me:733 Lo:683 P-Hi:1000 Hi:867 Me:733 Lo:600	P-Hi:650 Hi:600 Me:550 Lo:483	P-Hi:717 Hi:650 Me:600 Lo:500	P-Hi:1000 Hi:867 Me:733 Lo:600	P-Hi:1000 Hi:866 Me:733 Lo:683 P-Hi:1000 Hi:866 Me:733 Lo:600	P-Hi:1333 Hi:1200 Me:1067 Lo:933	P-Hi:1333 Hi:1200 Me:1067 Lo:933
		Indoor (Heating)													
Refrigerant (R32)		Quantity	kg	1.7	3.3	2.25	4.0	4.0	4.0	3.3	4.0	4.0	5.1	5.1	5.1
		Pre Charged To Pipe Length	m	15	30	15	30	30	30	30	30	30	30	30	30
Installation Data	Refrigerant Piping	Liquid Line	mm	Ø6.35**	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø12.7	Ø12.7	Ø12.7
		Gas Line		Ø15.88	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	Ø22.22 , Ø25.4 or Ø28.58
	Connection Method			Flare Connection									Liquid: Flare / Gas: Brazing		
	Maximum Pipe Length (One Way)		m	30	50	30	100	100	100	50	100	100	***70		***70
	Max vertical height diff. between O.U. and I.U.			20 (O.U. above I.U.) / 20 (O.U. below I.U)	50 (O.U. above I.U.) /15 (O.U. below I.U.)	20 (O.U. above I.U.) / 20 (O.U. below I.U)	Max^50 (O.U above I.U Outdoor temp ≤ 43°C) , Max 30 (O.U above I.U Outdoor temp > 43°C) / 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.)		30(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(D), RCH-E3 or RCN-KIT4-E2											
Safety Pan (Optional)				UA-SP2-E	UA-SP2-E	UA-SP2-E	UA-SP2-E	N/A	N/A	UA-SP2-E	UA-SP2-E	N/A	N/A	N/A	N/A
Motion Sensor (Optional)				LB-KIT2											
Demand response (AS4755)				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Outdoor air temperature (upper, lower limits)		Cooling	℃	-15 to 46	-15 to 50	-15 to 46	-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		-15 to 20	-20 to 20	-20 to 20	-20 to 20	-20 to 20	-20 to 20	-20 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 27ºCDB, 19ºCWB, and outdoor temp. of 35ºCDB. Heating: Indoor temp. of 20ºCDB, and outdoor temp. of 7ºCDB, 6ºCWB.
**Reducer set Ø9.52 --> Ø6.35 is included in the outdoor unit as accessory for FDCA100VNP-W. ***Maximum 70m (Gas piping:Ø22.22 (7/8") , Ø25.4 (1")), Maximum 35m (Gas piping: Ø22.22 (7/8").
^In case of the outdoor unit is positioned higher, the dimensional limitation change from 30m to 50m is possible by changing SW5-2 of outdoor unit Control PCB to ON.

PRODUCT SPECIFICATIONS

KX SERIES

CAPACITY				9.0KW	11.2KW	14.0KW	15.2KW	11.2 KW	14.0KW	15.2KW	22.4KW	28.0KW
Indoor				FDU90KXE6F-W	FDU112KXE6F-W	FDU140KXE6F-W	FDU160KXE6F-W	FDU112KXE6F-W	FDU140KXE6F-W	FDU160KXE6F-W	FDU224KXZE1	FDUA280KXZE1
Outdoor				FDC90KXZEN1-W	FDC112KXZEN1-W	FDC140KXZEN1-W	FDCA155KXZEN1-W	FDC112KXZES1-W	FDC140KXZES1-W	FDCA155KXZES1-W	FDC224KXZPE1	FDC280KXZPE1
Power Source (Outdoor Unit)				1 Phase 240V 50Hz				3 Phase 380-415V 50Hz				
*Operation Data	Nominal Capacity Range	Cooling T1	kW	9.00	11.2	14.0	15.2	11.2	14.0	15.2	22.4	28.0
		Heating H1		9.00	11.2	14.0	15.5	11.2	14.0	15.5	22.4	28.0
	Power Consumption (Indoor Unit)	Cooling T1		0.25	0.32	0.36	0.43	0.32	0.36	0.43	1.20	1.20
		Heating H1		0.25	0.32	0.36	0.43	0.32	0.36	0.43	1.20	1.20
	Power Consumption (Outdoor Unit)	Cooling T1		1.98	2.55	4.00	4.87	2.55	4.00	4.87	5.60	7.87
		Heating H1		1.93	2.53	3.52	4.06	2.53	3.52	4.06	4.80	6.47
	Running Current (Indoor Unit)	Cooling T1	A	1.70	2.00	2.20	2.50	2.00	2.20	2.50	6.50	6.50
		Heating H1		1.70	2.00	2.20	2.50	2.00	2.20	2.50	6.50	6.50
	Running Current (Outdoor Unit)	Cooling T1		8.30	10.7	16.8	20.5	3.8	6.0	7.4	9.2	12.9
		Heating H1		8.10	10.6	14.8	17.1	3.8	5.4	6.2	7.9	10.6
	Inrush Current, Maximum Current			5, 23	5, 23	5, 23	5, 23	5, 13.5	5, 13.5	5, 13.5	5, 21	5, 22
	Sound Pressure Level (JIS C9612)	Indoor	dB(A)	P-Hi:37 Hi:31 Me:27 Lo:22	P-Hi:40 Hi:36 Me:34 Lo:28	P-Hi:41 Hi:37 Me:34 Lo:28	P-Hi:45 Hi:38 Me:34 Lo:29	P-Hi:40 Hi:36 Me:34 Lo:28	P-Hi:41 Hi:37 Me:34 Lo:28	P-Hi:45 Hi:38 Me:34 Lo:29	P-Hi52 Hi: 50 Me:47 Lo:45	P-Hi52 Hi:50 Me:47 Lo:45
		Outdoor		53	54	54	54	54	54	54	60	63
External Dimensions (HXWXD)		Indoor	mm	280 x 950 x 635	280 × 1368 × 740	280 × 1368 × 740	280 × 1368 × 740	280 × 1368 × 740	280 × 1368 × 740	280 × 1368 × 740	379 x 1600 x 893	379 x 1600 x 893
		Outdoor		845 x 970 x 370	845x970x370	845x970x370	845x970x370	845x970x370	845x970x370	845x970x370	1505x970x370	1505x970x370
Net Weight		Indoor	kg	34	54	54	54	54	54	54	89	89
		Outdoor		85	85	85	85	87	87	87	165	165
Supply Air Connection			mm	170 x 880	170 x 1200	170 x 1200	170 x 1200	170 x 1200	170 x 1200	170 x 1200	250 x 1450	250 x 1450
Return Air Connection				200 x 740	235 x 1280	235 x 1280	235 x 1280	235 x 1280	235 x 1280	235 x 1280	250 x 1450	250 x 1450
External Static Pressure (Max)			Pa	200	200	200	200	200	200	200	200	200
Airflow		Indoor (Cooling)	l/s	P-Hi:400 Hi:317 Me:250 Lo:167	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: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:1333 Hi:1200 Me:1067 Lo:933	P-Hi:1333 Hi:1200 Me:1067 Lo:933
		Indoor (Heating)										
Refrigerant (Type, Amount, Pre-charge Length)		Quantity	kg	(R32) 4.2	(R32) 4.2	(R32) 4.2	(R32) 4.2	(R32) 4.2	(R32) 4.2	(R32) 4.2	(R410A) 8.9	(R410A) 8.9
		Pre Charged To Pipe Length	m	30**	30**	30**	30**	30**	30**	30**	0.5**	0.5***
Installation Data	Refrigerant Piping	Liquid Line	mm	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø9.52 (3/8")
		Gas Line		Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø15.88 (5/8")	Ø19.05 (3/4")	Ø22.22 (7/8")	Ø19.05 (3/4")	Ø22.22 (7/8")
	Connection Method			Flare Connection							Liquid: Flare / Gas: Brazing	
	Maximum Pipe Length (One Way)		m	50	50	50	50	50	50	50	90	90
	Max vertical height diff. between O.U. and I.U.			30 (O.U. above I.U.) / 15 (O.U. below I.U.)							30 (O.U. above I.U.) / 30 (O.U. below I.U.)	
Controller				RC-E5, RC-EXZ3A, RCH-E3 or RCN-KIT4-E2								
Motion Sensor (Optional)				LB-KIT2								
Demand response (AS4755)				No	No	No	No	No	No	No	No	No
Outdoor air temperature (upper, lower limits)		Cooling	°C	-15 to 43	-15 to 43	-15 to 43	-15 to 43	-15 to 43	-15 to 43	-15 to 43	-15 to 50	-15 to 50
		Heating		-20 to 20	-20 to 20	-20 to 20	-20 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 27ºCDB, 19ºCWB, and outdoor temp. of 35ºCDB. Heating: Indoor temp. of 20ºCDB, and outdoor temp. of 7ºCDB, 6ºCWB.
**Please refer to E-solution software or technical manual for additional refrigerant requirements. Flexizone not compatible with KX 1:1 systems.

PRODUCT SPECIFICATIONS

AKARI™ SERIES

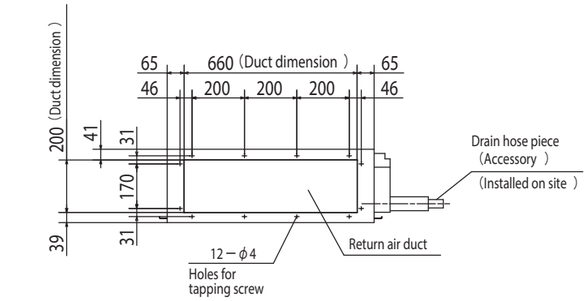
CAPACITY				2.5kW	3.5kW	5.0kW	6.0kW
Indoor				SRR25ZS-W	SRR35ZS-W	SRR50ZS-W	SRR60ZS-W
Outdoor				SRC25ZSA-W	SRC35ZSA-W	SRC50ZSXA-W	SRC60ZSXA-W
Power Source (Outdoor Unit)				1 Phase 240V 50Hz			
*Operation Data	Nominal Capacity (Range)	Cooling T1	kW	2.5 (0.9~3.4)	3.5 (0.9~4.1)	5.0 (1.2~6.0)	5.6 (1.2~6.5)
		Heating H1		3.4 (0.9~5.0)	4.2 (1.0~5.2)	5.4 (1.0~8.2)	6.7 (1.0~8.6)
		Heating H2		3.55	4.1	6.0	6.8
	Power Consumption	Cooling T1		0.56 (0.20~0.90)	0.93 (0.19~1.26)	1.42 (0.22~2.02)	1.70 (0.22~2.57)
		Heating H1		0.75 (0.20~1.42)	1.01 (0.20~1.45)	1.39 (0.2~2.86)	1.89 (0.2~2.89)
	Maximum Power Consumption			1.65	1.65	2.9	2.9
	Running Current	Cooling T1	A	2.7	4.2	6	7.2
		Heating H1		3.5	4.5	5.9	8
	Inrush Current, Maximum Current			3.5, 9.0	4.5, 9.0	5.0, 15.0	5.0, 15.0
	EER	Cooling T1		4.46	3.76	3.52	3.29
	COP	Heating H1		4.53	4.16	3.88	3.54
	Sound Power Level (JIS C9612)	Outdoor	dB (A)	60	62	63	65
	Sound Pressure Level (JIS C9612)	Indoor		37-33-30-24	38-34-31-25	41-37-34-29	44-38-35-30
		Outdoor		47	50	51	52
	External dimensions (HXWXD)	Indoor	mm	200x750(+120)x500	200x750(+120)x500	200x950(+120)x500	200x950(+120)x500
		Outdoor		540x780(+62)x290	540x780(+62)x290	640x800(+71)x290	640x800(+71)x290
Energy Label (GEMS 2019)		Hot	Cooling	★★★½ (3.5)	★★★½ (3.5)	★★★ (3)	★★★ (3)
			Heating	★★★½ (3.5)	★★★ (3)	★★★½ (3.5)	★★★ (3)
		Average	Cooling	★★★ (3)	★★★ (3)	★★★ (3)	★★½ (2.5)
			Heating	★★★ (3)	★★½ (2.5)	★★½ (2.5)	★★½ (2.5)
		Cold	Cooling	★★★ (3)	★★★ (3)	★★★ (3)	★★★ (3)
			Heating	★★½ (2.5)	★★½ (2.5)	★★ (2)	★★ (2)
Net weight			Indoor	kg	20.5	20.5	24	24
			Outdoor		34.5	34.5	45	45
Airflow			Cooling (Indoor)	l/s	158-133-108-75	167-142-117-83	211-183-167-125	242-192-175-133
			Heating (Indoor)		167-150-133-100	175-158-142-108	233-208-183-142	250-217-192-150
Installation Data	Refrigerant (Type, Amount, Pre-charge Length)		Quantity	kg	(R32) 0.78	(R32) 0.78	(R32) 1.3	(R32) 1.3
			Pre-Charged to Pipe	m	15	15	15	15
	Refrigerant Piping		Liquid line	mm	Ø6.35 (1/4")	Ø6.35 (1/4")	Ø6.35 (1/4")	Ø6.35 (1/4")
			Gas line		Ø9.52 (3/8")	Ø9.52 (3/8")	Ø12.7 (1/2")	Ø12.7 (1/2")
	Connection Method				Flare connection			
	Maximum Pipe Length (One Way)			m	20		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.)	
Standard accessories					Polypropylene Net x1			
Optional parts					Interface kit (SC-BIKN2-E) / Wi-Fi Kit			
Demand Response (AS4755)					Yes			
Outdoor air temperature (upper, lower limits)			Cooling	°C	-15 to 46			
			Heating		-15 to 24			

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

(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.
*Product specifications are accurate at time of printing and may be subject to updates.

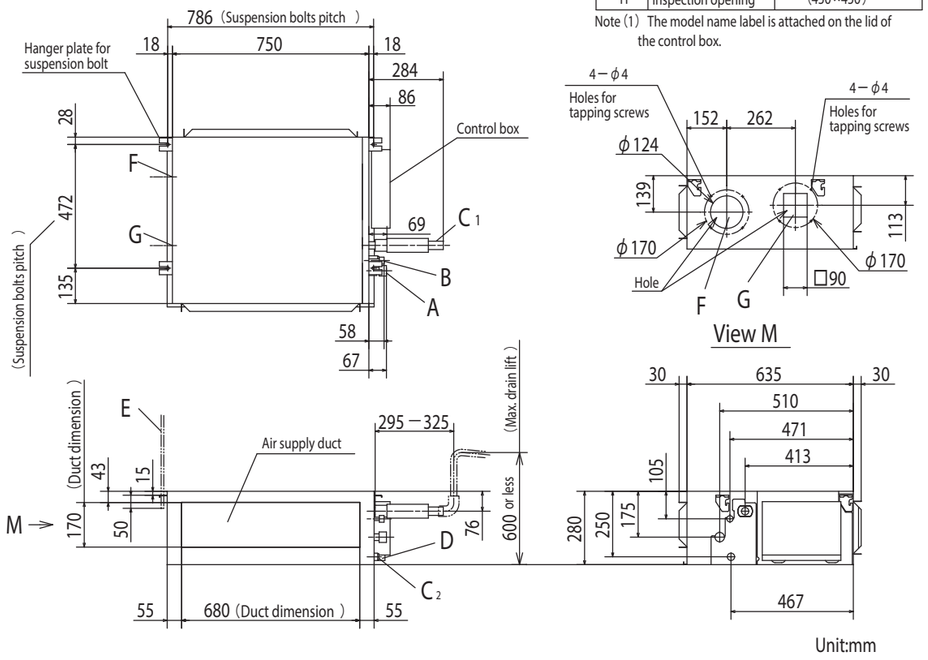
FDUM Series

FDUM50VH



Symbol	Content	
A	Gas piping	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)
C1	Drain piping	VP25 (O.D.32)
C2	Drain piping (Gravity drainage)	VP20
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(φ150) (Knock out)
G	Air outlet opening for ducting	(φ125) (Knock out)
H	Inspection opening	(450×450)

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

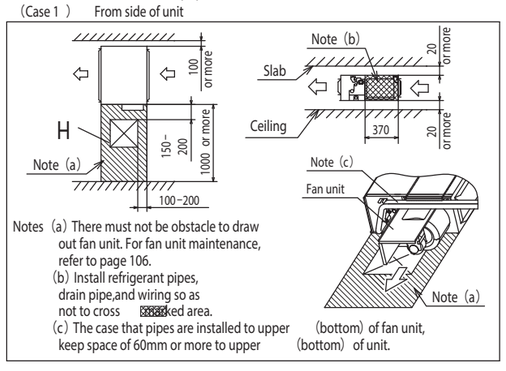


Unit:mm

Space for installation and service

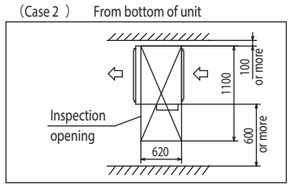
Select either of two cases to keep space for installation and services.

(Case 1) From side of unit



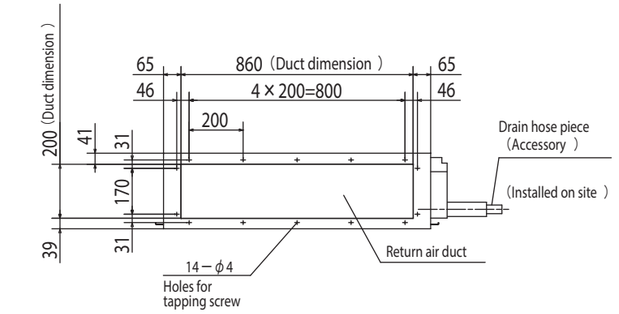
Notes (a) There must not be obstacle to draw out fan unit. For fan unit maintenance, refer to page 106.
(b) Install refrigerant pipes, drain pipe,and wiring so as not to cross ▨ ked area.
(c) The case that pipes are installed to upper (bottom) of fan unit, keep space of 60mm or more to upper (bottom) of unit.

(Case 2) From bottom of unit



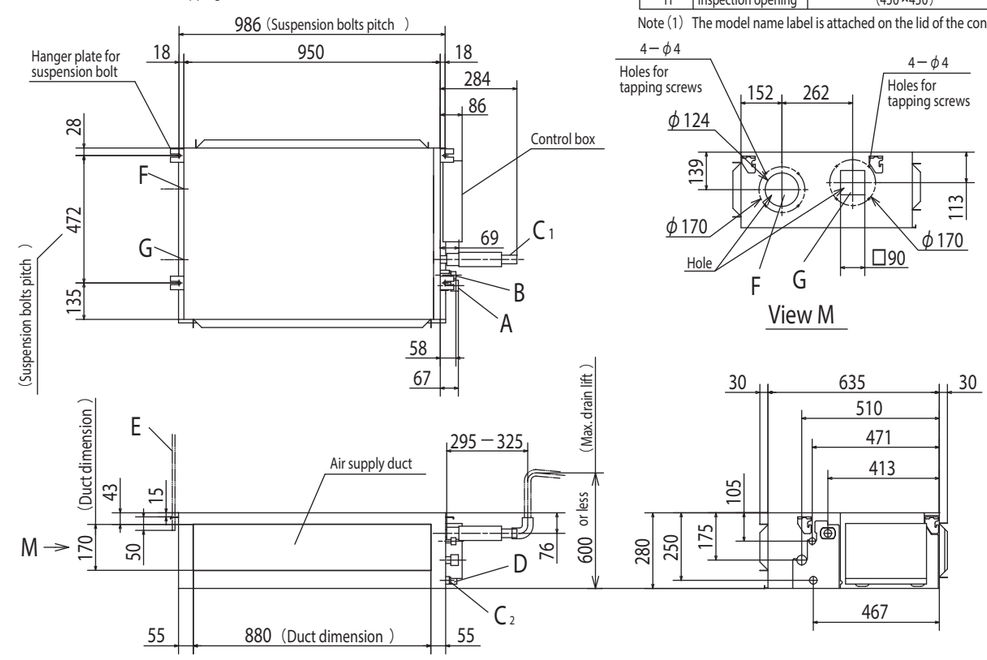
FDUM Series

FDUM60VH



Symbol	Content		
	Model	60	71
A	Gas piping	φ12.7 (1/2") (Flare)	φ15.88 (5/8") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	φ9.52 (3/8") (Flare)
C1	Drain piping	VP25 (O.D.32)	
C2	Drain piping (Gravity drainage)	VP20	
D	Hole for wiring		
E	Suspension bolts	(M10)	
F	Outside air opening for ducting	(φ150) (Knock out)	
G	Air outlet opening for ducting	(φ125) (Knock out)	
H	Inspection opening	(450×450)	

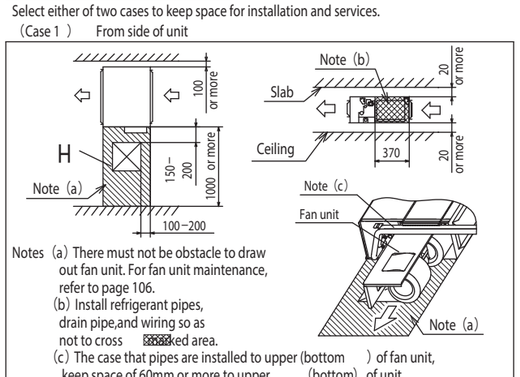
Note (1) The model name label is attached on the lid of the control box.



Space for installation and service

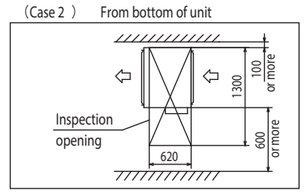
Select either of two cases to keep space for installation and services.

(Case 1) From side of unit



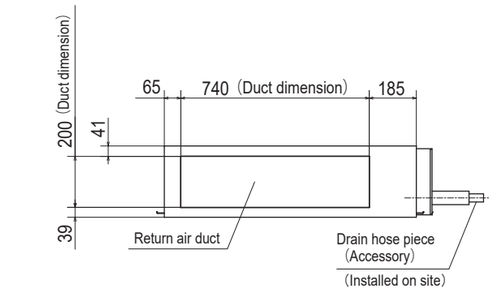
Notes (a) There must not be obstacle to draw out fan unit. For fan unit maintenance, refer to page 106.
(b) Install refrigerant pipes, drain pipe,and wiring so as not to cross ▨ ked area.
(c) The case that pipes are installed to upper (bottom) of fan unit, keep space of 60mm or more to upper (bottom) of unit.

(Case 2) From bottom of unit

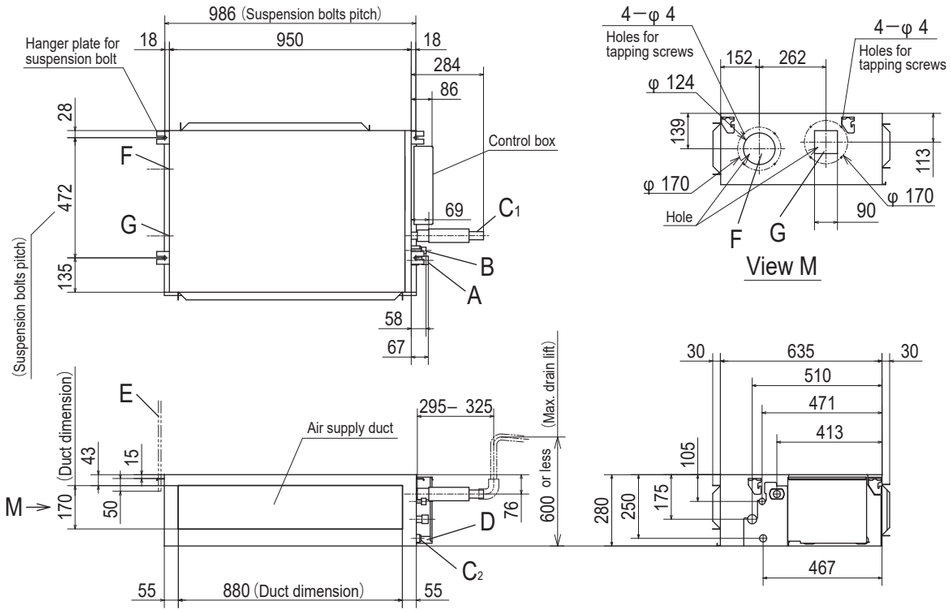


FDU Series

FDU71VH



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

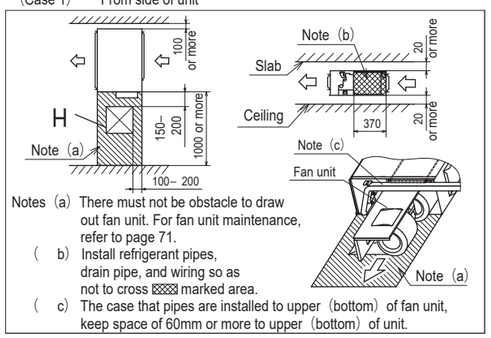


Unit:mm

Space for installation and service

Select either of two cases to keep space for installation and services.

(Case 1) From side of unit

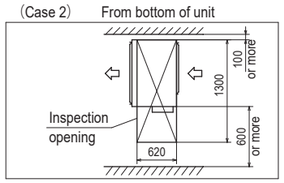


Notes (a) There must not be obstacle to draw out fan unit. For fan unit maintenance, refer to page 71.

(b) Install refrigerant pipes, drain pipe, and wiring so as not to cross ▨ marked area.

(c) The case that pipes are installed to upper (bottom) of fan unit, keep space of 60mm or more to upper (bottom) of unit.

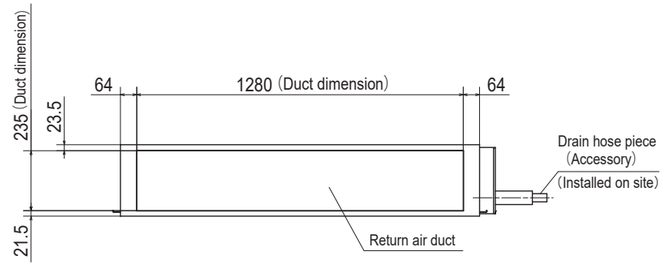
(Case 2) From bottom of unit



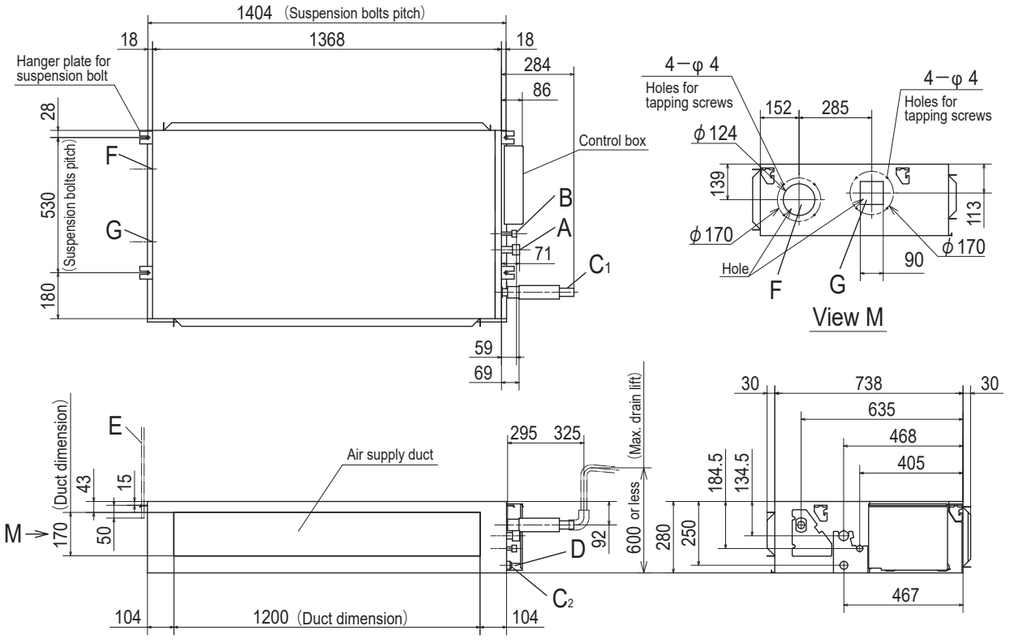
Note (1) The model name label is attached on the lid of the control box.

FDU Series

FDU100VH, 125VH, 140VH



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

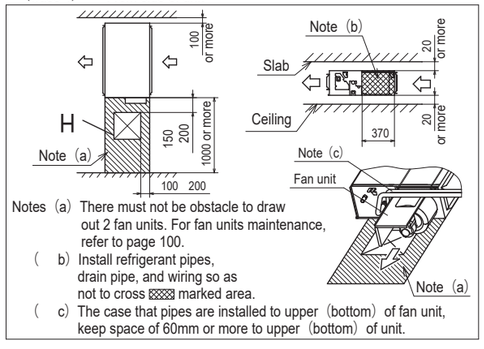


Unit:mm

Space for installation and service

Select either of two cases to keep space for installation and services.

(Case 1) From side of unit

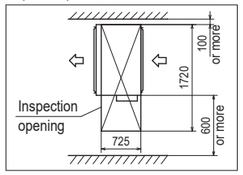


Notes (a) There must not be obstacle to draw out 2 fan units. For fan units maintenance, refer to page 100.

(b) Install refrigerant pipes, drain pipe, and wiring so as not to cross ▨ marked area.

(c) The case that pipes are installed to upper (bottom) of fan unit, keep space of 60mm or more to upper (bottom) of unit.

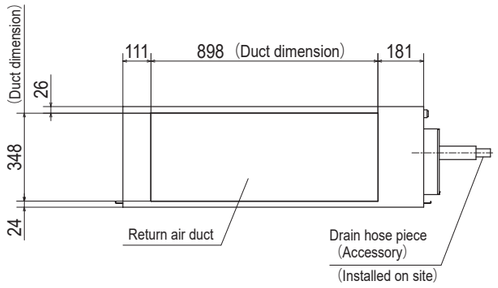
(Case 2) From bottom of unit



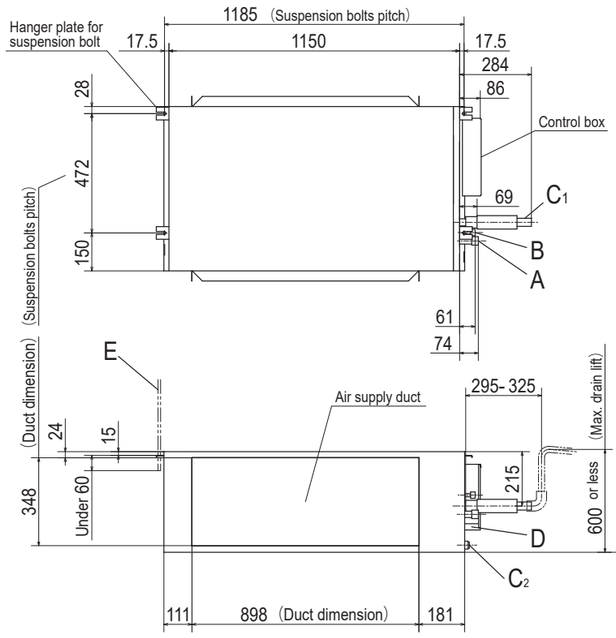
Note (1) The model name label is attached on the lid of the control box.

FDUA Series

FDUA100, 125VH



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	(450×450)

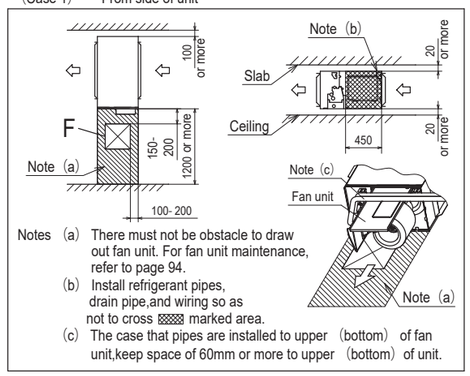


Unit:mm

Space for installation and service

Select either of two cases to keep space for installation and services.

(Case 1) From side of unit

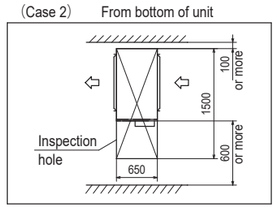


Notes (a) There must not be obstacle to draw out fan unit. For fan unit maintenance, refer to page 94.

(b) Install refrigerant pipes, drain pipe,and wiring so as not to cross ▨ marked area.

(c) The case that pipes are installed to upper (bottom) of fan unit,keep space of 60mm or more to upper (bottom) of unit.

(Case 2) From bottom of unit



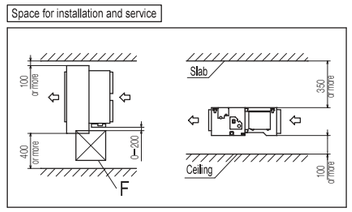
Note (1) The model name label is attached on the lid of the control box.

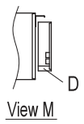
FDUA Series

FDUA140VH

Symbol	Content	
A	Gas piping	ϕ15.88 (5/8") (Flare)
B	Liquid piping	ϕ9.52 (3/8") (Flare)
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 opening	(450×450)

Space for installation and service

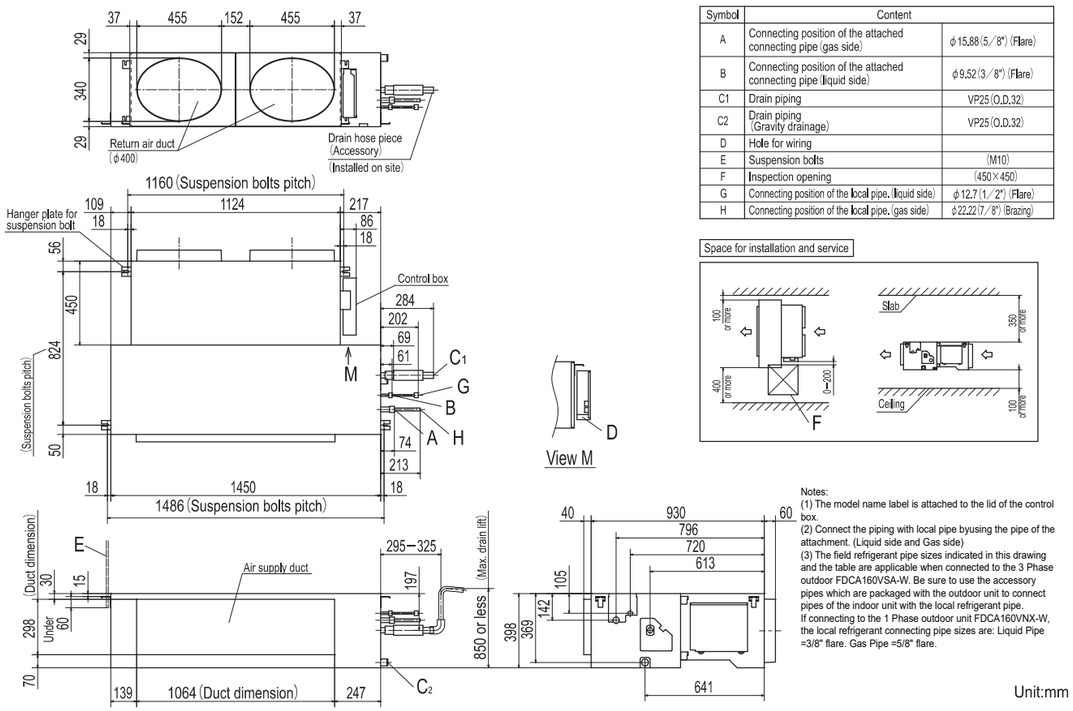




Note (1) The model name label is attached on the lid of the control box.

Unit:mm

FDUA160VH



Symbol	Content	
A	Connecting position of the attached connecting pipe (gas side)	ϕ15.88 (5/8") (Flare)
B	Connecting position of the attached connecting pipe (liquid side)	ϕ9.52 (3/8") (Flare)
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 opening	(450×450)
G	Connecting position of the local pipe. (liquid side)	ϕ12.7 (1/2") (Flare)
H	Connecting position of the local pipe. (gas side)	ϕ22.22 (7/8") (Brazing)

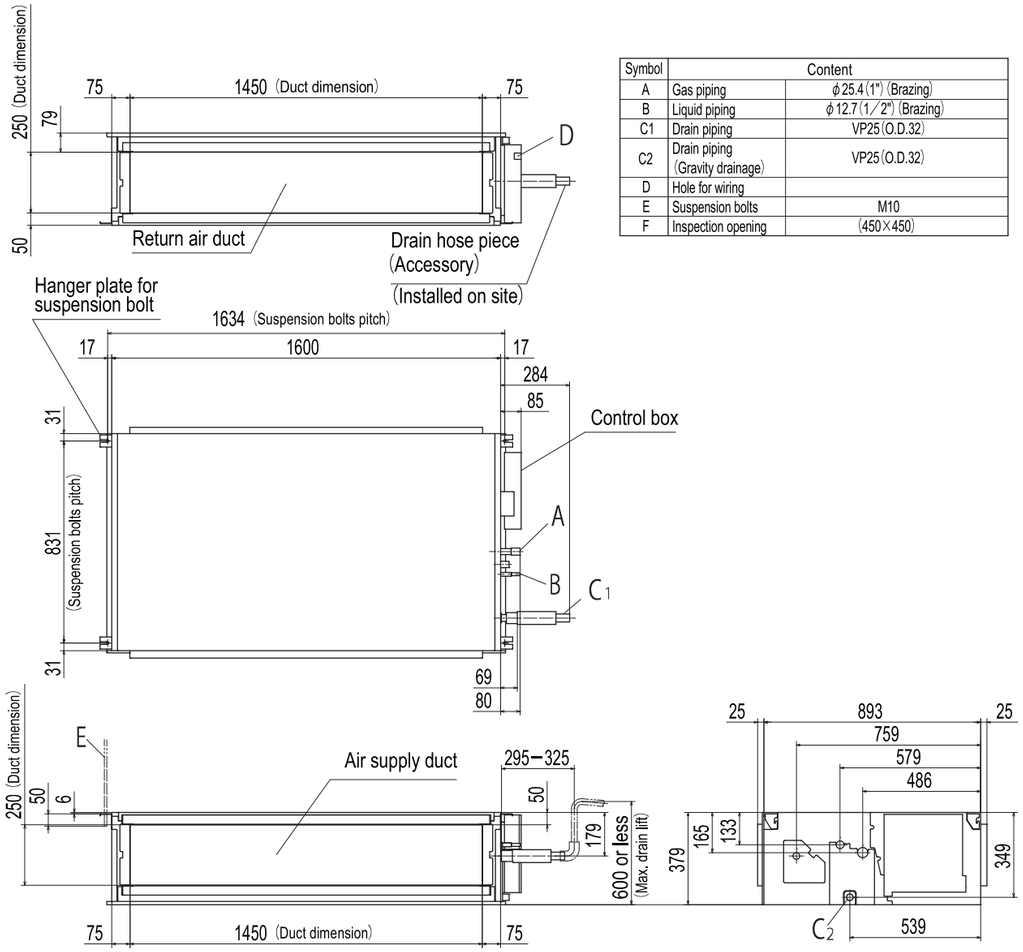
Space for installation and service

Notes:
(1) The model name label is attached to the lid of the control box.
(2) Connect the piping with local pipe byusing the pipe of the attachment. (Liquid side and Gas side)
(3) The field refrigerant pipe sizes indicated in this drawing and the table are applicable when connected to the 3 Phase outdoor FDCA160VSA-W. Be sure to use the accessory pipes which are packaged with the outdoor unit to connect pipes of the indoor unit with the local refrigerant pipe.
If connecting to the 1 Phase outdoor unit FDCA160VNX-W, the local refrigerant connecting pipe sizes are: Liquid Pipe =3/8" flare. Gas Pipe =5/8" flare.

Unit:mm

FDUA Series

FDUA200, 250VH



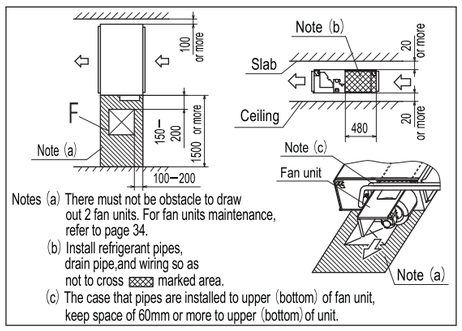
Unit:mm

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 opening	(450×450)

Space for installation and service

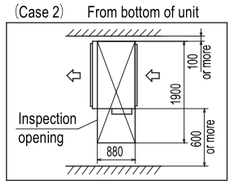
Select either of two cases to keep space for installation and services.

(Case 1) From side of unit



Notes (a) There must not be obstacle to draw out 2 fan units. For fan units maintenance, refer to page 34.
(b) Install refrigerant pipes, drain pipe,and wiring so as not to cross ▨ marked area.
(c) The case that pipes are installed to upper (bottom) of fan unit, keep space of 60mm or more to upper (bottom) of unit.

(Case 2) From bottom of unit



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

KX Series

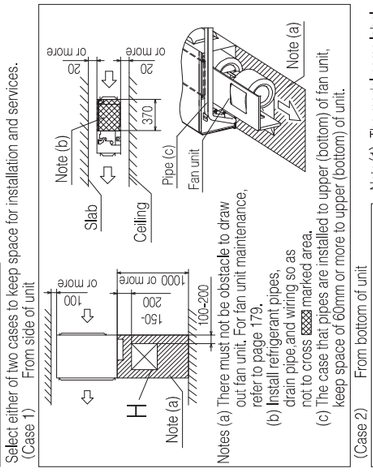
FDU90KXE6F-W

Symbol	Content	
A	Gas piping	ϕ15.88 (5/8") (Flare)
B	Liquid piping	ϕ9.52 (3/8") (Flare)
C1	Drain piping	VP25 (O.D.32)
C2	Drain piping (Gravity drainage)	VP20 (O.D.26)
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(Knock out)
G	Air outlet opening for ducting	(Knock out)
H	Inspection opening	(450×450)

Space for installation and service

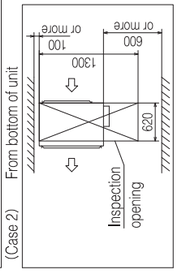
Select either of two cases to keep space for installation and services.

(Case 1) From side of unit



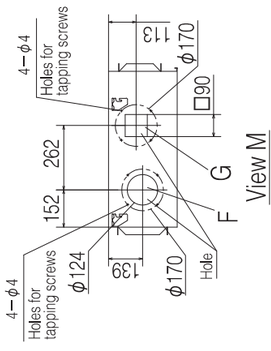
Notes (a) There must not be obstacle to draw out fan unit. For fan unit maintenance, refer to page 179.
(b) Install refrigerant pipes, drain pipe and wiring so as not to cross ▨ marked area.
(c) The case that pipes are installed to upper (bottom) of fan unit, keep space of 60mm or more to upper (bottom) of unit.

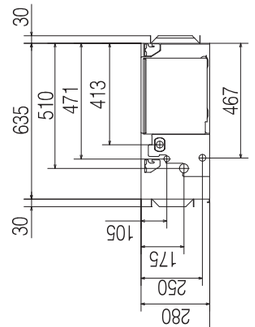
(Case 2) From bottom of unit

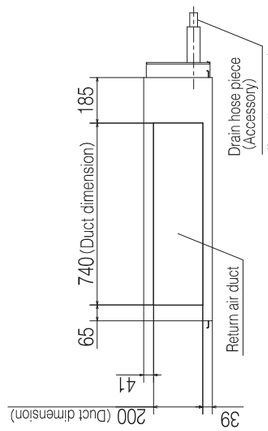


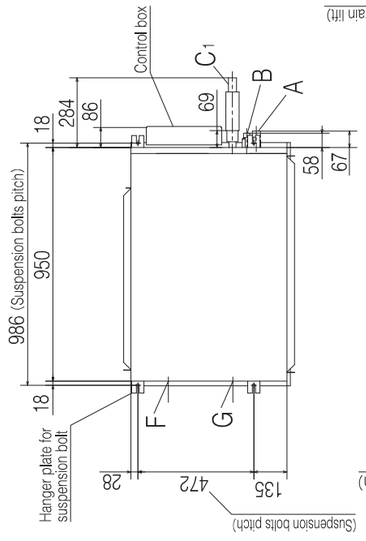
Note (1) The model name label is attached on the lid of the control box.

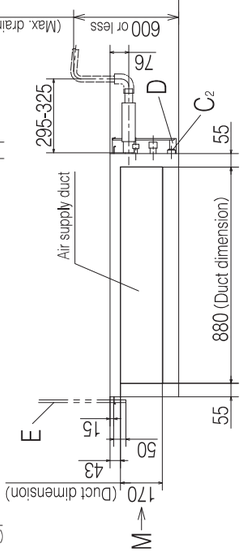
Unit:mm









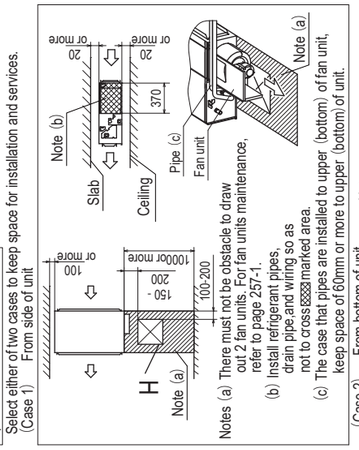


KX Series

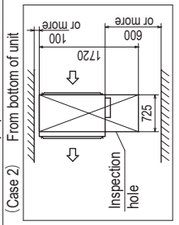
FDU112KXE6F-W, 140KXE6F-W, 160KXE6F-W

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

Space for installation and service
Select either of two cases to keep space for installation and services.
(Case 1) From side of unit

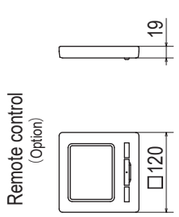


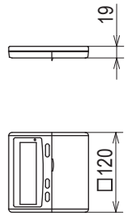
(Case 2) From bottom of unit

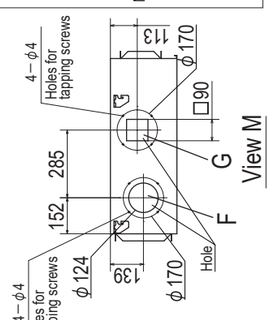


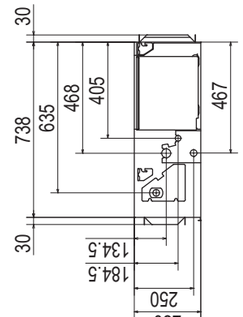
Note
(1) The model name label is attached on the lid of the control box.

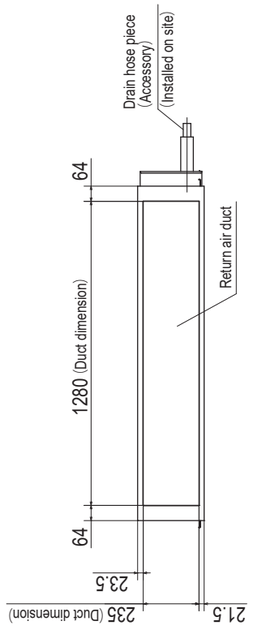
Unit:mm

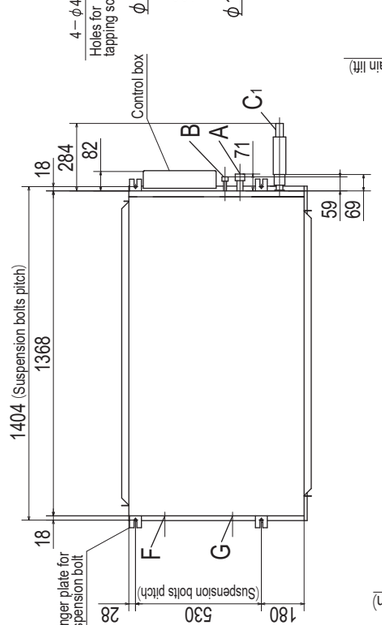










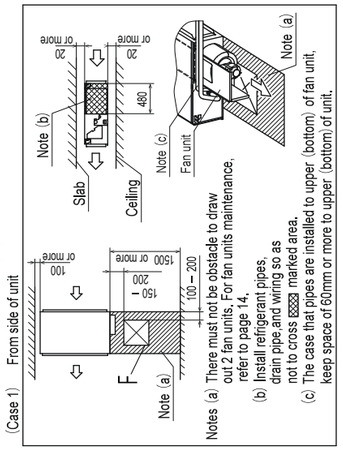


KX Series

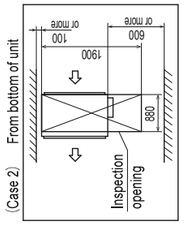
FDUA224KXZE1, 280KXZE1

Symbol	MODEL	Content 224	280
A	Gas piping	ϕ 19.05 (3/4") (Brazing)	ϕ 22.22 (7/8") (Brazing)
B	Liquid piping	ϕ 9.52 (3/8") (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 opening	(450 × 450)	

Space for installation and service
Select either of two cases to keep space for installation and services.
(Case 1) From side of unit

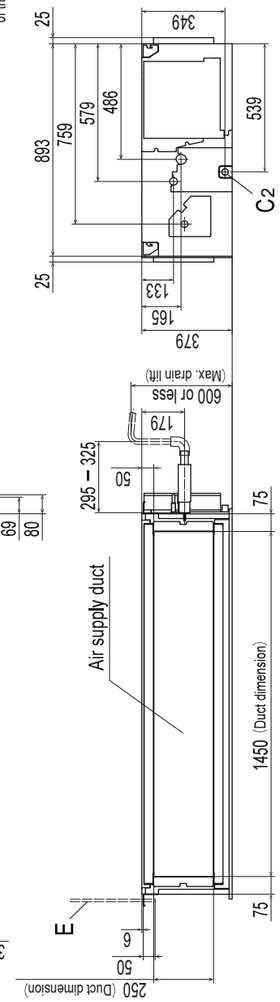


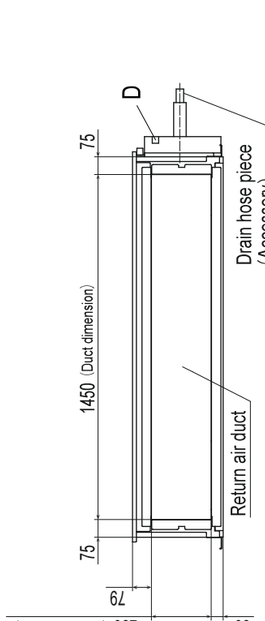
(Case 2) From bottom of unit

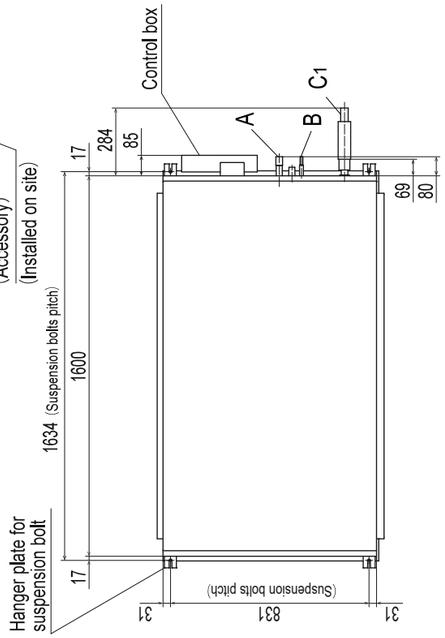


Note (1) The model name label is attached on the lid of the control box.

Unit:mm

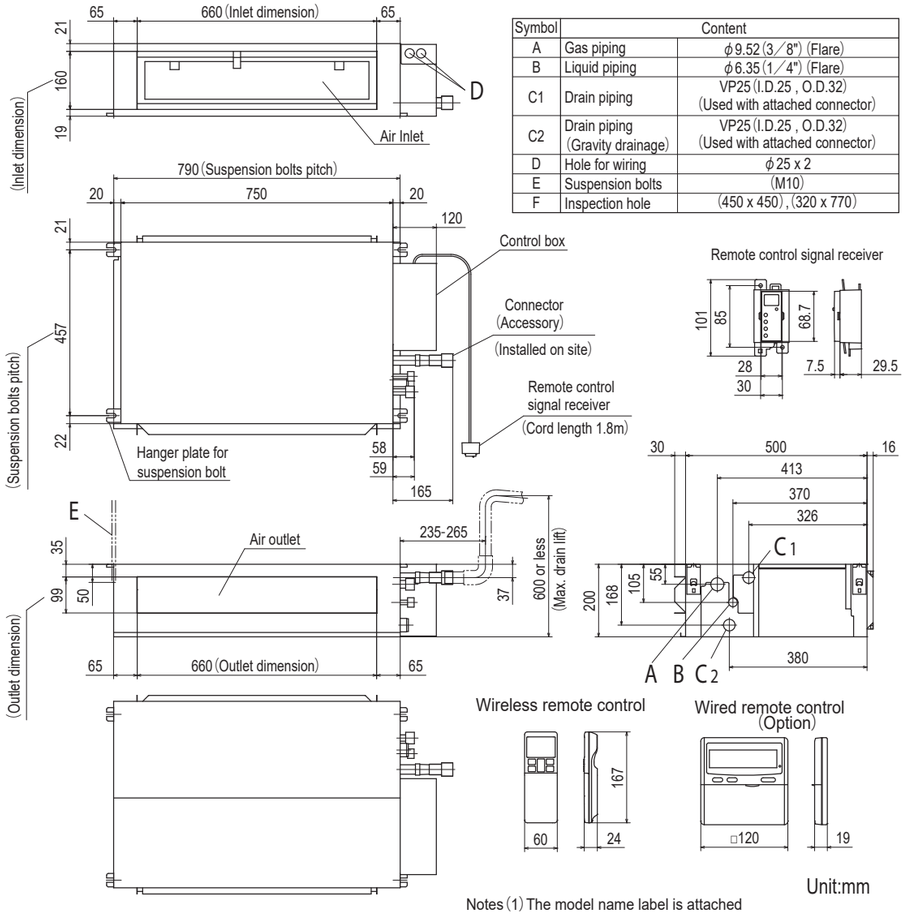






AKARI™ Series

SRR25ZS-W, 35ZS-W

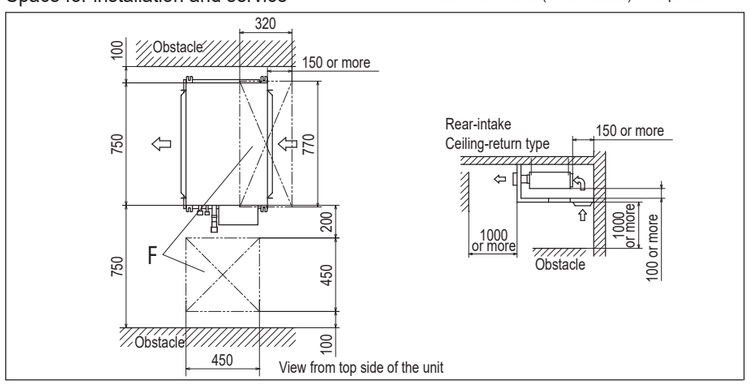


Symbol	Content	
A	Gas piping	ϕ9.52 (3/8") (Flare)
B	Liquid piping	ϕ6.35 (1/4") (Flare)
C1	Drain piping	VP25 (I.D.25 , O.D.32) (Used with attached connector)
C2	Drain piping (Gravity drainage)	VP25 (I.D.25 , O.D.32) (Used with attached connector)
D	Hole for wiring	ϕ25 x 2
E	Suspension bolts	(M10)
F	Inspection hole	(450 x 450) , (320 x 770)

Unit:mm

Notes (1) The model name label is attached on the lid of the control box.
(2) To connect the wired remote control, the interface kit (SC-BIKN2-E) is required.

Space for installation and service



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New Zealand Branch

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