

# Panasonic

ideas for life

Air Conditioners



## LARGE CAPACITY AIR CONDITIONERS

for offices and shops



**INVERTER**  
R410A

eco ideas

The Matsushita Group actively develops environmentally-conscious products.

### Energy

We are promoting the use of high energy-saving performance inverter technology in our products. The dissemination of environment-friendly products helps to minimise energy consumption in the home and prevent global warming.

### Materials

None of the products we ship contain any specified chemical substances\* regardless of the market. And to reduce the environmental load of products due to the possibility of pollution after they are scrapped, we are promoting to create products that are easier to recycle. In consideration to the environment, we use the refrigerant R410A in our inverter air conditioners.

\* Lead, cadmium, hexavalent chromium, mercury, specified bromine flame retardants (PBB, PBDE)

### Factories

Our manufacturing sites around the world have acquired ISO 14001 certification. We are also taking thorough steps to reduce the environmental load through energy-saving efforts and the reduction of waste and chemical emissions.

### RoHS

Restriction of Hazardous Substances

總代理 Sole Agent:



**信興電工工程有限公司**  
**SHUN HING ELECTRIC WORKS AND ENGINEERING CO., LTD.**  
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保養及維修 Maintenance and Repair Service

**信興電器服務中心有限公司**  
**SHUN HING ELECTRIC SERVICE CENTRE LTD.**  
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**Panasonic**

• Specifications and designs are subject to change without notice.  
R410A FS\_06/10



In The Hong Kong Voluntary Energy Efficiency Labelling Scheme for Room Coolers\*

\*For specific models

# Model Line-Up – LARGE CAPACITY AIR CONDITIONERS

**INVERTER**



## Indoor Unit (Inverter / Non-Inverter)

Both inverter and non-inverter indoor unit models can be used.

Models with the # mark cannot be used in single connection with an inverter unit.

CLASS	1.0HP	1.5HP	1.75HP	2.0HP	2.25HP	2.5HP	3.0HP	4.0HP	5.0HP	6.0HP
 <b>Cassette</b>		CS-F14DB4E5 <sup>#</sup>		CS-F18DB4E5 <sup>#</sup>		CS-F24DB4E5	CS-F28DB4E5	CS-F34DB4E5	CS-F43DB4E5	CS-F50DB4E5
 <b>Hide-Away</b> (Low Static Pressure Models)		CS-F14DD3E5 <sup>#</sup>		CS-F18DD3E5 <sup>#</sup>		CS-F24DD3E5	CS-F28DD3E5	CS-F34DD3E5	CS-F43DD3E5	CS-F50DD3E5
 <b>Hide-Away</b> (Middle Static Pressure Models)						CS-F24DD2E5	CS-F28DD2E5	CS-F34DD2E5	CS-F43DD2E5	CS-F50DD2E5
 <b>Ceiling</b>				CS-F18DTE5 <sup>#</sup>		CS-F24DTE5	CS-F28DTE5	CS-F34DTE5	CS-F43DTE5	CS-F50DTE5

Indoor Unit Combination  
page 21

**INVERTER**  
**Outdoor Unit**  
(Inverter)  
page 16

						 CU-L24DBE5	 CU-L28DBE5	 CU-L34DBE5 CU-L34DBE8*	 CU-L43DBE5 CU-L43DBE8*	 CU-L50DBE8*
						 CU-YL24HBE5	 CU-YL28HBE5	 CU-YL34HBE5	 CU-YL43HBE5	

**Outdoor Unit**  
(Non-Inverter)  
page 16

	 CU-J14DBE5 CU-B14DBE5	 CU-J18DBE5 CU-B18DBE5		 CU-J24DBE5 CU-J24DBE8* CU-B24DBE5	 CU-J28DBE5 CU-J28DBE8* CU-B28DBE5 CU-B28DBE8*	 CU-J34DBE5 CU-J34DBE8* CU-B34DBE5 CU-B34DBE8*	 CU-J43DBE8* CU-B43DBE8*	 CU-J50DBE8* CU-B50DBE8*
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\* 3-Phase



Parasitic is participating in the EUROVENT Certification Programme. Products are as listed in the EUROVENT Directory of Certified Products.



■ Cooling Only Model  
■ Heat Pump Model

# DC Inverter can attain comfortable and energy-saving operation.



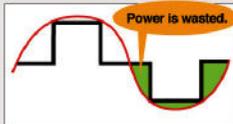
## Energy-saving operation

All the models of Panasonic FS Inverter Series are equipped with DC inverters for the higher EER operation. The new design attains the quiet and high-efficient operation and reduces the running cost.

### Hyper Wave Inverter

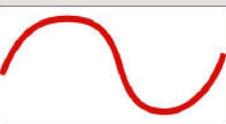
The Panasonic group's experiences and actual results in the development of inverters are released in the control. This control of the inverter demonstrates the optimum compressor torque. The FS series quickly warms the room up to the set temperature and maintains a comfortable condition, whilst ensuring energy efficiency and savings.

#### Our conventional inverter



The current waveform deviates from the motor voltage waveform, so power is wasted.

#### Hyper Wave Inverter

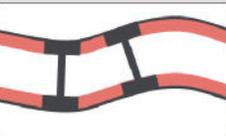


The current waveform closely matches the motor voltage waveform, so power consumption is reduced.

#### Compare this to a car rounding a corner.



Power is wasted when the car swings off course.



When the car stays right on course, there's no power loss.

### High-Efficiency Compressor

Using of a powerful neodymium (rare-metal) magnet for a motor allowed us to make the motor more compact. The winding rotor motor of less magnetic field distortion attains higher efficiency.



- ① Hyper Wave Inverter
- ② DC Inverter Compressor
- ③ New Large Diagonal Air Flow Fan

### Class-Leading Efficiency

The cassette indoor unit is equipped with a newly-developed turbo fan; the new design released low operation noise and high air flow. In addition, the DC fan motor is able to give complete control, this is almost twice as efficient as a conventional motor and enables comfortable and energy saving operation.

#### The Advanced Air Path Design – Key to Efficiency.

#### Newly Designed Turbo Fan

1 The newly developed three-dimensional blade shape stabilizes the air flow.



Both air inlet and outlet are improved.

2 Optimizing layout of the indoor heat exchanger and the fan enables the increase in the fan diameter.

## Space-saving design

### Space-Saving Outdoor Unit

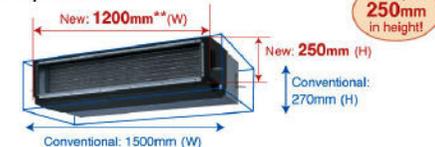
Improvement of the outdoor unit's fan has reduced the size of the unit to enable installation in a smaller space. Without sacrificing quietness, also higher efficiency is attained. More freedom in installation contributes to the easy piping and facilitates installation. It will lead to the reduction in installation cost.



### Compact, Hide-Away Indoor Units

The compact Hide-Away Type\* indoor units (Low Static Pressure Models) were newly developed. These downsized units can be installed in apartments and other places where space is limited. The top-class of compactness in the industry has been attained: 1200 mm in width, 250 mm in height, (650 mm in depth), 26% smaller than the conventional. \*4 HP-6 HP models

#### Comparison in size



The unit can be installed in the limited space.

\*\*Add 100 mm for power supply equipment.

#### The Sophisticated Air Path Design – Key to Compact Size.

#### These three improvements to minimise the air resistance.

- 1 New Large Diagonal Air Flow Fan

The newly designed fan blades reduce the frontal discharge distance.

- 2 Improved front grille opening shape

- 3 Improved front grille grid shape



#### The Precise Air Path Design – Key to Saving Space.

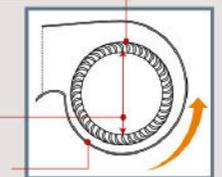
#### High-Performance Large-Diameter Sirocco Fan and High-Performance Casing

- 1 The shape of the Sirocco fan airfoil shape has been improved to boost static pressure. (Air flow and peeling improved)

New Conventional

- 2 Large-diameter fan of high efficiency has been attained by reducing the scroll and the number of fans.

- 3 High-performance casing produces the maximum air efficiency. (Enlarging from the bottom side made it possible to reduce the height.)



\*Patent applications have been made for these technologies.

# Pursuing the Perfect Design – In Air Quality, Airflow, and Convenience



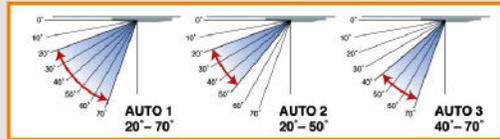
## Comfort in every detail

Panasonic FS Series includes the knowledge for carefully designing for comfort. Careful consideration has been given to both air flow and air quality. A Wired remote controller is also available, which is equipped with a high-performance timer to program the operation mode to meet the requirements of each user.

For cassette models

### Multi Comfort Air Control

Newly developed control technology offers the various selection of fine air blowing angle. Select from the 3-pattern auto swings not to expose to the air directly (total 50-degree swing width).



Can be operated with the wireless remote control.



For all models

### Weekly Timer

Weekly timer setting (each day of a week) is available to control the air conditioner. Max. 6 settings/day and 42 settings/week can be executed. The setting temperature can be also programmed for optimal comfort.

#### Set like this for these uses

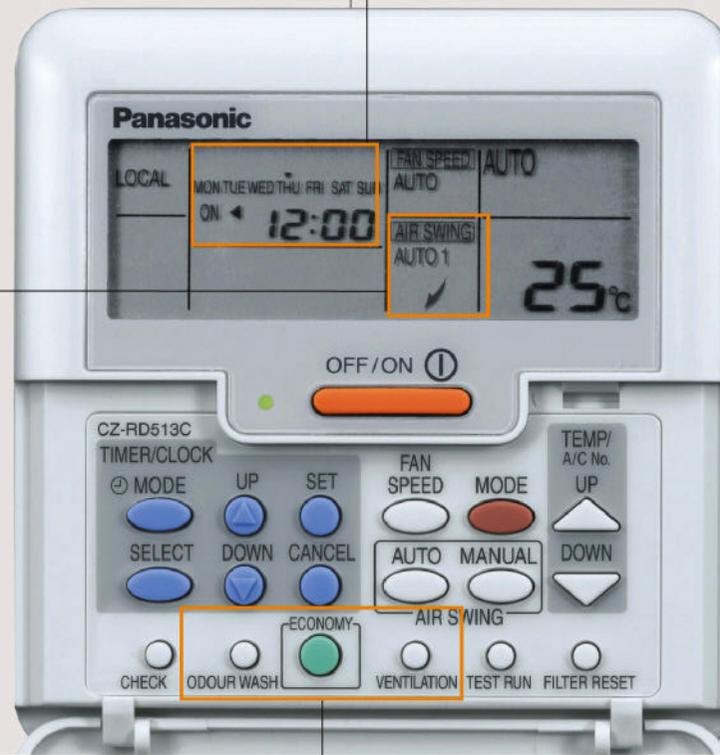
Shop with regular holidays	The number of persons varies depending on time zones.	Not to forget to switch OFF
<p>Example: Closed Saturday afternoon and all day Sunday.</p> <p><b>Mon-Fri On 9:00, Off 18:00</b></p> <p><b>Sat On 9:00, Off 12:00</b></p> <p><b>Sun Not set</b></p> <p>➔ The timer can have different settings for every day of the week.</p>	<p>Example: Set a lower temperature at lunch time when a lot of persons may visit.</p> <p><b>Everyday</b></p> <p><b>On 12:00 23°C</b></p> <p><b>On 14:00 28°C</b></p> <p>➔ In this case, the temperature can be set at the same time.</p>	<p>Example: To prevent forgetting to switch OFF weekdays</p> <p><b>Mon-Fri</b></p> <p><b>Off 20:00</b></p> <p>➔ The timer can be set for simple shut-off operation.</p>

How to set



\*Simple Timer Mode

Using the 24-hour On/Off timer, the operation of On/Off can be set at a same time everyday.



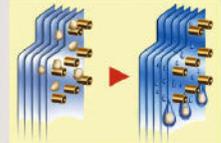
For all models

### Odour Wash

Odour Wash reduces any unpleasant odours produced from the air conditioner's heat exchanger.

#### Dual-system of odour control

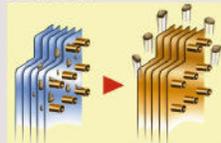
**Odour Removing**  
ONE PUSH



When the air from the outlet smells musty. Moisture in the heat exchanger washes away odours.

Can be operated with the wireless remote control.

**Odour Clear<sup>+</sup>**  
3 SEC. PUSH



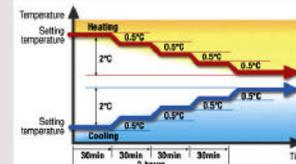
When odours are strong, and before and after the air conditioning season. The heat exchanger heats up to clear odours.

# Applicable Models: Inverter Models Only

For all models

### Economy Mode

An approximate 20%\* energy-saving operation is attained. The air conditioner judges the stable condition and moderately shifts the set temperature in 0.5-degree steps to control the energy-saving operation. (Max. 2 degrees)

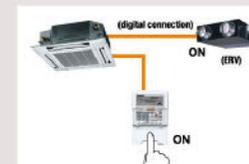


\* During operating in the cooling mode at the remote control set temperature of 25 under the cooling standard temperature conditions. Can be operated with the wireless remote control.

For all models

### Ventilation

When the external device such as a ventilator is connected to the indoor unit, switch ON/OFF of the ventilator can be controlled by the wired remote control. Either link-ventilation or independent-ventilation is selectable.



Ventilators are not included in the product line. Optional printed circuit board (Interface Adapter for External Signals: CZ-TA31P1) is needed.

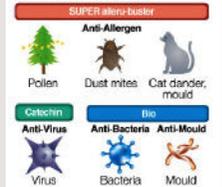
## Option

For cassette and ceiling models

### SUPER alleru-buster filter

SUPER alleru-buster filter uses three types of functional materials that make it possible to inactivate various harmful airborne elements including allergens, viruses, and bacteria. This filter is available as an option.

<Inactivating targets>



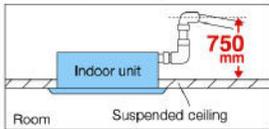
CZ-SA11P (For cassette type)  
CZ-SA12P (For ceiling type)

# Cassette Type



## Fast, Flexible Installation

• **750 mm Drain-Up Mechanism**  
Drain hose can be elevated 750 mm from the base of the unit simply by connecting an elbow. This adds to ease of drain piping work, and flexibility in locating the indoor unit.



## Easy Maintenance and Cleaning

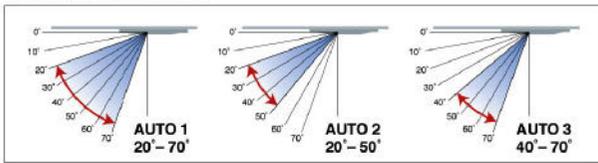
• **Anti-Mould Long-Life Air Filter**



\* For optimum comfort, we recommend cleaning the air filter every 1.5 months.

## Three Airflow Patterns for Extra Comfort

• **Multi-Comfort Air Control**



### Selectable Remote Controller

\* Customer needs to choose either wired or wireless.

Wired Remote Controller

Wireless Remote Controller

## Versatile Functions

- **950 mm Square Panel for All Models (Optional: CZ-BT03P)**
- **Weekly Timer (Wired Remote Controller only)**
- **24-Hour On/Off Real Setting Timer**
- **Odour Wash**
- **Economy Mode**
- **Auto Restart Function**
- **Auto Changeover Function (Heat Pump Model)**
- **Auto Fan Mode**
- **Dry Mode Function**
- **Low Ambient Cooling Operation**
- **Hot Start Control**
- **Self-Diagnostic Function**
- **Optional: SUPER allu-buster filter (CZ-SA11P)**



## Specifications Inverter Models

Items	Cooling Capacity		Power Source	Current	Power Input	EER COP	Annual Energy Consumption	Air Volume	NoiseLevel*				Dimensions		Net Weight		Piping Connection		Pipe Length				Operation Range (Outdoor)**		
	Cooling	Heating							Indoor (H/L) Cooling	Outdoor (H) Cooling	Indoor (H) Heating	Outdoor (H) Heating	Indoor	Panel	Outdoor	Indoor	Outdoor	Gas Side	Liquid Side	Min - Max. Length	Elevation Difference (CU up)***	Max. Charge-less Length		Additional Gas	°C
	kW	kW	Phase V	A	kW	W/W (EEL)	kWh	m <sup>3</sup> /min	dB(A)	dB(A)	dB	dB	mm (H) / mm (W) / mm (D)	kg	kg	kg	kg	O.D. mm (inch)	O.D. mm (inch)	m	m	m	g/m	°C	
Grade 1 CS-F24DB4ES CZ-BT03P CU-L24DBE5	5.00 21.500	7.10 24.200	1φ 220-240	7.7	1.70 18.200	3.71A 3.80A	850	18	36/32	47	51	63	246 840	950 320	795 45	26	4.5	71	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -10-24
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Grade 1 CS-F24DB4ES CZ-BT03P CU-L24DBE5	5.00 21.500	7.10 24.200	1φ 220-240	7.7	1.70 18.200	3.71A 3.80A	850	18	36/32	47	51	63	246 840	950 320	795 45	26	4.5	71	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -10-24
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Grade 1 CS-F24DB4ES CZ-BT03P CU-L24DBE5	5.00 21.500	7.10 24.200	1φ 220-240	7.7	1.70 18.200	3.71A 3.80A	850	18	36/32	47	51	63	246 840	950 320	795 45	26	4.5	71	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -10-24
	5.00 21.500	7.10 24.200	1φ 220-240	7.7	1.70 18.200	3.71A 3.80A	850	18	36/32	47	51	63	246 840	950 320	795 45	26	4.5	71	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -10-24
Grade 1 CS-F24DB4ES CZ-BT03P CU-L24DBE5	5.00 21.500	7.10 24.200	1φ 220-240	7.7	1.70 18.200	3.71A 3.80A	850	18	36/32	47	51	63	246 840	950 320	795 45	26	4.5	71	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -10-24
	5.00 21.500	7.10 24.200	1φ 220-240	7.7	1.70 18.200	3.71A 3.80A	850	18	36/32	47	51	63	246 840	950 320	795 45	26	4.5	71	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -10-24
Grade 1 CS-F24DB4ES CZ-BT03P CU-L24DBE5	5.00 21.500	7.10 24.200	1φ 220-240	7.7	1.70 18.200	3.71A 3.80A	850	18	36/32	47	51	63	246 840	950 320	795 45	26	4.5	71	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -10-24
	5.00 21.500	7.10 24.200	1φ 220-240	7.7	1.70 18.200	3.71A 3.80A	850	18	36/32	47	51	63	246 840	950 320	795 45	26	4.5	71	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -10-24
Grade 1 CS-F24DB4ES CZ-BT03P CU-L24DBE5	5.00 21.500	7.10 24.200	1φ 220-240	7.7	1.70 18.200	3.71A 3.80A	850	18	36/32	47	51	63	246 840	950 320	795 45	26	4.5	71	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -10-24
	5.00 21.500	7.10 24.200	1φ 220-240	7.7	1.70 18.200	3.71A 3.80A	850	18	36/32	47	51	63	246 840	950 320	795 45	26	4.5	71	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -10-24
Grade 1 CS-F24DB4ES CZ-BT03P CU-L24DBE5	5.00 21.500	7.10 24.200	1φ 220-240	7.7	1.70 18.200	3.71A 3.80A	850	18	36/32	47	51	63	246 840	950 320	795 45	26	4.5	71	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -10-24
	5.00 21.500	7.10 24.200	1φ 220-240	7.7	1.70 18.200	3.71A 3.80A	850	18	36/32	47	51	63	246 840	950 320	795 45	26	4								

# Hide-Away Type

## Low Static Pressure Models



### Remote Controller

\*A remote controller is in the same package with the indoor unit.



Wired Remote Controller

### Compact, Lightweight Design for Easy Installation

Thin and only 250mm\* high, with a slim width of only 1,200 mm\* this compact unit fits easily in limited spaces. The lightweight and small size also make it easier to transport and install.

\* 4.0 HP-6.0 HP models



\*\* Add 100 mm for power supply equipment

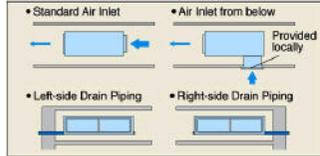
### Various Installation Applications

#### • Versatile Air Inlet and Drain Installation

The mounting locations for the air inlet and drain outlet can be changed as desired for easy, flexible system layout and installation.

#### • Static Pressure Selection

The static pressure is selectable from 5 or 7 mmAq according to the condition of the duct. For short ducts, the lower pressure of 5 mmAq provides efficient operation.



### Versatile Functions

- Auto Fan Mode
- Auto Restart Function
- Dry Mode Function
- Auto Changeover Function (Heat Pump Mode)
- Low Ambient Cooling Operation
- Weekly Timer
- 24-Hour On/Off Real Setting Timer
- Odour Wash
- Economy Mode
- Hot Start Control
- Self-Diagnostic Function

### Easy Maintenance

#### • 3-Way Removable Air Filter

The air filter can be removed in three directions for easier maintenance.



### Specifications Inverter Models

Items	Cooling Capacity	Heating Capacity	Power Source	Current	Power Input	EER COP	Annual Energy Consumption	Air Volume	NoiseLevel*				Dimensions		Net Weight	Piping Connection		Pipe Length				Operation Range (Outdoor)**	
									Sound Pressure Level	Indoor (H) Cooling	Outdoor (H) Cooling	Indoor (H) Heating	Indoor (H) Heating	Indoor (H) Heating		mm (H) (W) (D)	mm (H) (W) (D)	kg	kg	Gas Side	Liquid Side		Min - Max Length
CS-F24D03ES CU-L24DBES	6.30 (0.00-4.50) 21.50 (7.00-25.00)	7.10 (3.10-12.00) 24.20 (7.00-25.00)	1φ 220-240 50	9.0	1.06 (0.60-2.40) 2.81 (2.00-3.41)	3.21A	980	22	50(5) 69(7)	43/39	47	59	63	250 1,000*100* 650 300	41	71	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -20-24
CS-F28D03ES CU-L28DBES	7.10 (1.00-5.00) 24.20 (7.00-25.00)	8.00 (3.20-8.00) 27.30 (7.00-25.00)	1φ 220-240 50	10.1	1.06 (0.60-2.40) 2.81 (2.00-3.41)	3.21A	1,105	22	50(5) 69(7)	43/39	48	59	64	250 1,000*100* 650 300	41	71	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -20-24
CS-F34D03ES CU-L34DBES	8.00 (1.00-5.00) 24.20 (7.00-25.00)	9.00 (3.20-8.00) 27.30 (7.00-25.00)	1φ 220-240 50	10.1	1.06 (0.60-2.40) 2.81 (2.00-3.41)	3.21A	1,385	36	50(5) 69(7)	47/43	52	60	66	1,200*100* 650 300	47	110	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -20-24
CS-F34D03ES CU-L34DBES	10.00 (1.00-5.00) 24.20 (7.00-25.00)	11.00 (3.20-8.00) 27.30 (7.00-25.00)	3φ 380-415 50	4.4	2.77 (1.30-4.00) 3.61A (3.20-3.41)	3.61A	1,385	36	50(5) 69(7)	45/41	52	60	66	1,200*100* 650 300	47	105	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -20-24
CS-F43D03ES CU-L43DBES	10.00 (1.00-5.00) 24.20 (7.00-25.00)	11.00 (3.20-8.00) 27.30 (7.00-25.00)	3φ 380-415 50	5.2	2.77 (1.30-4.00) 3.61A (3.20-3.41)	3.61A	2,075	40	50(5) 69(7)	45/41	53	60	69	1,200*100* 650 300	47	110	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -20-24
CS-F43D03ES CU-L43DBES	12.50 (1.00-5.00) 24.20 (7.00-25.00)	14.00 (3.20-8.00) 27.30 (7.00-25.00)	3φ 380-415 50	6.5	4.15 (1.30-4.00) 3.01B (3.20-3.41)	3.01B	2,075	40	50(5) 69(7)	45/41	55	60	69	1,200*100* 650 300	47	105	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -20-24
CS-F50D03ES CU-L50DBES	10.00 (1.00-5.00) 24.20 (7.00-25.00)	11.00 (3.20-8.00) 27.30 (7.00-25.00)	3φ 380-415 50	7.6	4.15 (1.30-4.00) 3.21C (3.20-3.41)	3.21C	2,490	40	50(5) 69(7)	46/42	54	61	68	1,200*100* 650 300	47	105	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -20-24
CS-F24D03ES CU-YL24HBES	5.10 (0.00-3.00) 15.10 (7.00-25.00)	7.00 (3.10-12.00) 21.50 (7.00-25.00)	1φ 220-240 50	9.0	1.06 (0.60-2.40) 2.81 (2.00-3.41)	2.81	995	22	50(5) 69(7)	43/39	49	59	63	250 1,000*100* 650 300	41	68	15.88 (5/8)	9.52 (3/8)	7.5-30	(25) 30	30	50	-5-43 -15-24
CS-F28D03ES CU-YL28HBES	7.10 (1.00-5.00) 24.20 (7.00-25.00)	8.00 (3.20-8.00) 27.30 (7.00-25.00)	1φ 220-240 50	11.40	2.53 (0.60-2.40) 2.81 (2.00-3.41)	2.81	1,265	22	50(5) 69(7)	43/39	50	59	68	1,000*100* 650 300	41	65	15.88 (5/8)	9.52 (3/8)	7.5-30	(25) 30	30	50	-5-43 -15-24
CS-F34D03ES CU-YL34HBES	10.00 (1.00-5.00) 24.20 (7.00-25.00)	11.00 (3.20-8.00) 27.30 (7.00-25.00)	1φ 220-240 50	12.20	2.53 (0.60-2.40) 2.81 (2.00-3.41)	2.81	1,780	36	50(5) 69(7)	45/41	53	60	71	1,200*100* 650 300	47	66	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	-5-43 -15-24
CS-F43D03ES CU-YL43HBES	12.50 (1.00-5.00) 24.20 (7.00-25.00)	14.00 (3.20-8.00) 27.30 (7.00-25.00)	1φ 220-240 50	20.00	3.72 (1.30-4.00) 3.01C (3.20-3.41)	3.01C	2,225	40	50(5) 69(7)	45/41	54	60	72	1,200*100* 650 300	47	94	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	-5-43 -15-24

### Specifications Non-Inverter Models

Items	Cooling Capacity	Heating Capacity	Power Source	Current	Power Input	EER COP	Annual Energy Consumption	Air Volume	NoiseLevel*				Dimensions		Net Weight	Piping Connection		Pipe Length				Operation Range (Outdoor)**	
									Sound Pressure Level	Indoor (H) Cooling	Outdoor (H) Cooling	Indoor (H) Heating	Indoor (H) Heating	Indoor (H) Heating		mm (H) (W) (D)	mm (H) (W) (D)	kg	kg	Gas Side	Liquid Side		Min - Max Length
CS-F14D03ES CU-J14DBES	3.80 (0.00-1.00) 13.00	—	1φ 220-240 50	6.21	1.35 (1.32-1.38)	2.81C	675	17	50(5) 69(7)	42/38	49	58	65	250 1,000*100* 650 300	34	54	12.7 (1/2)	6.35 (1/4)	7.5-30	(20) 20	20	20	5-43 -10-24
CS-F18D03ES CU-J18DBES	5.00 (0.00-1.00) 17.10	—	1φ 220-240 50	8.38	1.85 (1.83-1.89)	2.66D	830	17	50(5) 69(7)	42/38	49	58	65	250 1,000*100* 650 300	34	56	12.7 (1/2)	6.35 (1/4)	7.5-30	(20) 20	20	20	5-43 -10-24
CS-F24D03ES CU-J24DBES	6.60 (0.00-1.00) 22.50	—	1φ 220-240 50	12.9	2.66 (2.62-2.70)	2.48E	1,330	22	50(5) 69(7)	43/39	50	59	66	1,000*100* 650 300	41	61	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
CS-F24D03ES CU-J24DBES	6.60 (0.00-1.00) 22.50	—	3φ 380-415 50	4.54	2.66 (2.62-2.70)	2.48E	1,330	22	50(5) 69(7)	43/39	50	59	66	1,000*100* 650 300	41	61	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
CS-F28D03ES CU-J28DBES	7.30 (0.00-1.00) 24.90	—	1φ 220-240 50	13.5	2.89 (2.82-2.94)	2.53E	1,445	22	50(5) 69(7)	43/39	52	59	67	1,200*100* 650 300	41	61	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
CS-F28D03ES CU-J28DBES	7.30 (0.00-1.00) 24.90	—	3φ 380-415 50	4.9	2.89 (2.82-2.94)	2.53E	1,445	22	50(5) 69(7)	43/39	52	59	67	1,200*100* 650 300	41	61	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
CS-F34D03ES CU-J34DBES	10.00 (0.00-1.00) 34.10	—	1φ 220-240 50	18.8	4.04 (3.95-4.12)	2.48E	2,020	36	50(5) 69(7)	45/41	55	60	69	1,200*100* 650 300	47	92	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
CS-F34D03ES CU-J34DBES	10.00 (0.00-1.00) 34.10	—	3φ 380-415 50	6.45	3.80 (3.75-3.85)	2.63D	1,900	36	50(5) 69(7)	45/41	55	60	69	1,200*100* 650 300	47	90	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
CS-F43D03ES CU-J43DBES	12.50 (0.00-1.00) 42.60	—	3φ 380-415 50	8.1	4.84 (4.80-4.88)	2.58E	2,420	40	50(5) 69(7)	45/41	56	60	70	1,200*100* 650 300	47	97	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
CS-F50D03ES CU-J50DBES	13.50 (0.00-1.00) 46.90	—	3φ 380-415 50	13.5	5.41 (5.36-5.51)	2.50E	2,655	40	50(5) 69(7)	46/42	56	61	70	1,200*100* 650 300	47	97	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
CS-F14D03ES CU-B14DBES	3.80 (0.00-1.00) 13.00	4.30 (1.70-2.00) 14.70	1φ 220-240 50	6.31	1.25 (1.21-1.29) 3.55B (1.18-1.24)	3.21C	675	17	50(5) 69(7)	42/38	49	58	65	250 1,000*100* 650 300	34	56	12.7 (1/2)	6.35 (1/4)	7.5-30	(20) 20	20	20	5-43 -10-24
CS-F18D03ES CU-B18DBES	5.00 (0.00-1.00) 17.10	5.60 (1.90-2.00) 19.10	1φ 220-240 50	8.53	1.89 (1.86-1.92) 3.95C (1.67-1.73)	2.66D	830	17	50(5) 69(7)	42/38	49	58	66	250 1,000*100* 650 300	34	57	12.7 (1/2)	6.35 (1/4)	7.5-30	(20) 20	20	20	5-43 -10-24
CS-F24D03ES CU-B24DBES	6.60 (0.00-1.00) 22.50	7.10 (2.40-2.50) 24.20	1φ 220-240 50	12.9	2.59 (2.46-2.59) 2.87D (1.67-1.73)	2.55E	1,285	22	50(5) 69(7)	43/39	50	59	66	1,000*100* 650 300	41	69	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
CS-F28D03ES CU-B28DBES	7.30 (0.00-1.00) 24.90	8.00 (2.70-2.80) 27.30	1φ 220-240 50	13.5	2.84 (2.78-2.89) 2.97D (2.15-2.28)	2.57E	1,420	22	50(5) 69(7)	43/39	52	59	67	1,000*100* 650 300	41	69	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
CS-F28D03ES CU-B28DBES	7.30 (0.00-1.00) 24.90	8.00 (2.70-2.80) 27.30	3φ 380-415 50	4.9	2.84 (2.78-2.89) 2.97D (2.15-2.28)	2.57E	1,420	22	50(5) 69(7)	43/39	52	59	67	1,000*100* 650 300	41	69	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
CS-F34D03ES CU-B34DBES	10.00 (0.00-1.00) 34.10	11.00 (3.80-4.00) 38.20	1φ 220-240 50	18.8	3.88 (3.83-4.05) 3.84D (3.68-4.00)	2.58E	1,940	36	50(5) 69(7)	45/41	55	60	69	1,200*100* 650 300	47	102	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
CS-F34D03ES CU-B34DBES	10.00 (0.00-1.00) 34.10	11.00 (3.80-4.00) 38.20	3φ 380-415 50	6.45	3.75 (3.70-3.80) 3.95D (3.54-3.64)	2.67D	1,875	36	50(5) 69(7)	45/41	55	60	69	1,200*100* 650 300	47	100	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
CS-F43D03ES CU-B43DBES	12.50 (0.00-1.00) 42.60	14.00 (4.70-5.00) 47.70	3φ 380-415 50	8.1	4.80 (4.75-4.87) 4.85D (4.61-4.78)	2.60E	2,400	40	50(5) 69(7)	45/41	56	60	70	1,200*100* 650 300	47	102	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
CS-F50D03ES CU-B50DBES	13.50 (0.00-1.00) 46.90																						

# Hide-Away Type

Middle Static Pressure Models



### Remote Controller

\* A remote controller is in the same package with the indoor unit.



Wired Remote Controller

### Thin (Only 29 cm\*), Lightweight Design

The unit has a height of only 29 cm, so it allows installation in limited ceiling spaces. The lightweight, attractive design simplifies installation, and matches virtually all room interiors.

\* 2.5 HP / 3.0 HP models.

### Flexible Installation

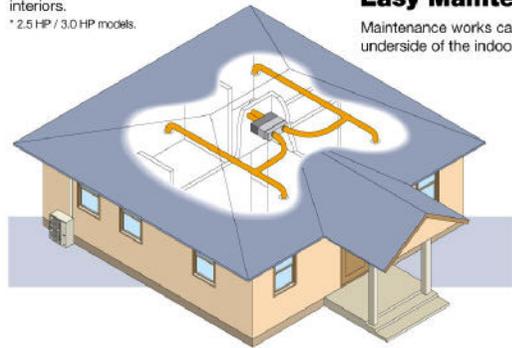
The powerful airflow enables a longer duct to be used. Since the air outlet can be installed away from the main unit, a variety of air conditioner layouts become possible.

### Easy Maintenance

Maintenance works can be done from the underside of the indoor unit.

### Versatile Functions

- Auto Fan Mode
- Auto Restart Function
- Dry Mode Function
- Auto Changeover Function (Heat Pump Mode)
- Low Ambient Cooling Operation
- Weekly Timer
- 24-Hour On/Off Real Setting Timer
- Odour Wash
- Economy Mode
- Hot Start Control
- Self-Diagnostic Function



### Specifications Inverter Models

Items	Cooling Capacity		Heating Capacity		Power Source	Current	Power Input	EER COP	Energy Saving Consumption	Annual Energy Consumption	Air Volume	NoiseLevel*				Dimensions		Piping Connection		Pipe Length			Operation Temp. (Outdoor)**	
	kW	Btu/h	kW	Btu/h								Indoor (Hi/Lo) Cooling	Outdoor (Hi) Cooling	Indoor (Hi) Heating	Outdoor (Hi) Heating	Indoor	Outdoor	Indoor	Outdoor	kg	O.D. mm (inch)	O.D. mm (inch)		Min. Max. Length
	kW	Btu/h	Phase V Hz	A	kW	W/W	kW	m <sup>3</sup> /min	Pa	dB(A)	dB(A)	dB	dB	mm (H/D)	mm (H/D)	kg	O.D. mm (inch)	O.D. mm (inch)	m	m	m	g/m	°C	
CS-F24D2E5 CU-L24DBE5	6.33	21,500	1φ	9.5	2.05	3.01B	1,045	22	69	45/41	47	61	63	290	795	35	71	15.88	9.52	7.5-50	(30)	30	50	-5-43
	8.33	28,500	220-240	9.5	2.05	3.01B	1,045	22	69	43/39	49	59	65	1,000*100*	900	320	35	71	15.88	9.52	7.5-50	(30)	30	50
CS-F28D2E5 CU-L28DBE5	7.30	24,900	1φ	10.7	2.39	3.01B	1,180	22	69	45/41	46	61	64	290	795	35	71	15.88	9.52	7.5-50	(30)	30	50	-5-43
	8.00	27,300	220-240	10.7	2.39	3.01B	1,180	22	69	43/39	50	59	66	1,000*100*	900	320	35	71	15.88	9.52	7.5-50	(30)	30	50
CS-F34D2E5 CU-L34DBE5	10.00	34,100	1φ	14.9	3.36	3.27A	1,530	38	98	49/45	52	64	66	360	1,340	48	110	15.88	9.52	7.5-50	(30)	30	50	-5-43
	11.20	38,200	220-240	14.9	3.36	3.27A	1,530	38	98	47/44	54	62	68	1,000*100*	900	320	48	110	15.88	9.52	7.5-50	(30)	30	50
CS-F43D2E5 CU-L43DBE5	12.50	42,600	1φ	18.8	4.35	3.01B	2,075	40	98	49/45	53	64	67	360	1,340	48	110	15.88	9.52	7.5-50	(30)	30	50	-5-43
	14.00	47,700	220-240	18.8	4.35	3.01B	2,075	40	98	47/44	55	62	69	1,000*100*	900	320	48	110	15.88	9.52	7.5-50	(30)	30	50
CS-F50D2E5 CU-L50DBE5	14.00	47,700	1φ	21.7	5.05	2.77D	2,530	45	98	49/45	54	64	68	360	1,340	48	110	15.88	9.52	7.5-50	(30)	30	50	-5-43
	15.00	51,100	220-240	21.7	5.05	2.77D	2,530	45	98	47/44	56	62	70	1,000*100*	900	320	48	110	15.88	9.52	7.5-50	(30)	30	50
CS-F24D2E5 CU-L24HBE5	6.33	21,500	1φ	9.00	2.81C	2.81C	995	22	69	45/41	49	61	67	290	795	35	65	15.88	9.52	7.5-30	(25)	30	-	-5-43
	8.33	28,500	220-240	9.00	2.81C	2.81C	995	22	69	43/39	51	59	68	1,000*100*	900	320	35	65	15.88	9.52	7.5-30	(25)	30	-
CS-F28D2E5 CU-L28HBE5	7.30	24,900	1φ	11.30	2.81C	2.81C	1,265	22	69	45/41	50	61	68	290	795	35	65	15.88	9.52	7.5-30	(25)	30	-	-5-43
	8.00	27,300	220-240	11.30	2.81C	2.81C	1,265	22	69	43/39	52	59	69	1,000*100*	900	320	35	65	15.88	9.52	7.5-30	(25)	30	-
CS-F34D2E5 CU-L34HBE5	10.00	34,100	1φ	16.30	3.36	2.81C	1,780	38	98	49/45	53	64	71	360	1,340	48	94	15.88	9.52	7.5-50	(30)	30	50	-5-43
	11.20	38,200	220-240	16.30	3.36	2.81C	1,780	38	98	47/44	56	62	73	1,000*100*	900	320	48	94	15.88	9.52	7.5-50	(30)	30	50
CS-F43D2E5 CU-L43HBE5	12.50	42,600	1φ	20.30	4.45	2.81C	2,225	40	98	49/45	54	64	72	360	1,340	48	94	15.88	9.52	7.5-50	(30)	30	50	-5-43
	14.00	47,700	220-240	20.30	4.45	2.81C	2,225	40	98	47/44	56	62	73	1,000*100*	900	320	48	94	15.88	9.52	7.5-50	(30)	30	50

### Specifications Non-Inverter Models

Items	Cooling Capacity		Heating Capacity		Power Source	Current	Power Input	EER COP	Energy Saving Consumption	Annual Energy Consumption	Air Volume	NoiseLevel*				Dimensions		Piping Connection		Pipe Length			Operation Temp. (Outdoor)**	
	kW	Btu/h	kW	Btu/h								Indoor (Hi/Lo) Cooling	Outdoor (Hi) Cooling	Indoor (Hi) Heating	Outdoor (Hi) Heating	Indoor	Outdoor	Indoor	Outdoor	kg	O.D. mm (inch)	O.D. mm (inch)		Min. Max. Length
	kW	Btu/h	Phase V Hz	A	kW	W/W	kW	m <sup>3</sup> /min	Pa	dB(A)	dB(A)	dB	dB	mm (H/D)	mm (H/D)	kg	O.D. mm (inch)	O.D. mm (inch)	m	m	m	g/m	°C	
CS-F24D2E5 CU-J24DBE5	6.60	22,500	1φ	13.1	2.70	2.44E	1,350	22	69	45/41	50	61	65	290	795	35	61	15.88	9.52	7.5-50	(30)	30	50	-5-43
	8.60	29,500	220-240	13.1	2.70	2.44E	1,350	22	69	43/39	54	61	66	1,000*100*	900	320	35	61	15.88	9.52	7.5-50	(30)	30	50
CS-F28D2E5 CU-J28DBE5	7.30	24,900	1φ	13.17	2.91	2.51E	1,455	22	69	45/41	52	61	67	290	795	35	61	15.88	9.52	7.5-50	(30)	30	50	-5-43
	8.00	27,300	220-240	13.17	2.91	2.51E	1,455	22	69	43/39	56	61	67	1,000*100*	900	320	35	61	15.88	9.52	7.5-50	(30)	30	50
CS-F34D2E5 CU-J34DBE5	10.00	34,100	1φ	19.0	4.10	2.44E	2,050	38	98	49/45	55	64	69	360	1,340	48	92	15.88	9.52	7.5-50	(30)	30	50	-5-43
	11.20	38,200	220-240	19.0	4.10	2.44E	2,050	38	98	47/44	58	64	69	1,000*100*	900	320	48	92	15.88	9.52	7.5-50	(30)	30	50
CS-F43D2E5 CU-J43DBE5	12.50	42,600	1φ	24.0	4.98	2.51E	2,480	40	98	49/45	56	64	70	360	1,340	48	97	15.88	9.52	7.5-50	(30)	30	50	-5-43
	14.00	46,800	220-240	24.0	4.98	2.51E	2,480	40	98	47/44	58	64	70	1,000*100*	900	320	48	97	15.88	9.52	7.5-50	(30)	30	50
CS-F50D2E5 CU-J50DBE5	13.50	46,800	1φ	28.0	5.46	2.47E	2,680	45	98	49/45	56	64	70	360	1,340	48	97	15.88	9.52	7.5-50	(30)	30	50	-5-43
	15.00	51,100	220-240	28.0	5.46	2.47E	2,680	45	98	47/44	58	64	70	1,000*100*	900	320	48	97	15.88	9.52	7.5-50	(30)	30	50
CS-F24D2E5 CU-B24DBE5	6.60	22,500	1φ	13.1	2.64	2.50E	1,320	22	69	45/41	50	61	66	290	795	35	69	15.88	9.52	7.5-50	(30)	30	50	-5-43
	8.60	29,500	220-240	13.1	2.64	2.50E	1,320	22	69	43/39	51	59	67	1,000*100*	900	320	35	69	15.88	9.52	7.5-50	(30)	30	50
CS-F28D2E5 CU-B28DBE5	7.30	24,900	1φ	13.7	2.86	2.55E	1,430	22	69	45/41	52	61	67	290	795	35	69	15.88	9.52	7.5-50	(30)	30	50	-5-43
	8.00	27,300	220-240	13.7	2.86	2.55E	1,430	22	69	43/39	53	59	68	1,000*100*	900	320	35	69	15.88	9.52	7.5-50	(30)	30	50
CS-F28D2E5 CU-B28DBE8	7.30	24,900	3φ	4.9	2.81C	2.55E	1,430	22	69	45/41	52	61	67	290	795	35	69	15.88	9.52	7.5-50	(30)	30	50	-5-43
	8.00	27,300	380-415	4.9	2.81C	2.55E	1,430	22	69	43/39	53	59	68	1,000*100*	900	320	35	69	15.88	9.52	7.5-50	(30)	30	50
CS-F34D2E5 CU-B34DBE5	10.00	34,100	1φ	18.8	3.97	2.52E	1,985	38	98	49/45	55	64	69	360	1,340	48	102	15.88	9.52	7.5-50	(30)	30	50	-5-43
	11.20	38,200	220-240	18.8	3.97	2.52E	1,985	38	98	47/44	56	62	70	1,000*100*	900	320	48	102	15.88	9.52	7.5-50	(30)	30	50
CS-F34D2E5 CU-B34DBE8	10.00	34,100	3φ	6.5	3.83	2.61D	1,915	38	98	49/45	55	64	69	360	1,340	48	100	15.88	9.52	7.5-50	(30)	30	50	-5-43
	11.20	38,200	380-415	6.5	3.83	2.61D	1,915	38	98	47/44	56	62	70	1,000*100*	900	320	48	100	15.88	9.52	7.5-50	(30)	30	50
CS-F43D2E5 CU-B43DBE8	12.50	42,600	1φ	24.0	4.92	2.54E	2,460	40	98	49/45	56	64	70	360	1,340	48	102	15.88	9.52	7.5-50	(30)	30	50	-5-43
	14.00	47,700	220-240	24.0	4.92	2.54E	2,460	40	98	47/44	57	62	71	1,000*100*	900									

# Ceiling Type



## Selectable Remote Controller

\* Customer needs to choose either wired or wireless.



Wired Remote Controller Wireless Remote Controller

## Easier Maintenance and Cleaning

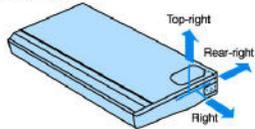
### • Anti-Mould Long Life Air Filter



\* For optimum comfort, we recommend cleaning the air filter every 1.5 months.

### • 3-Direction Pipe Lead-Out

The refrigerant piping can be lead out in one of three directions (right, rear-right and top-right), and the drain pipe direction can be selected from four directions.



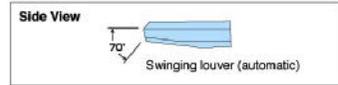
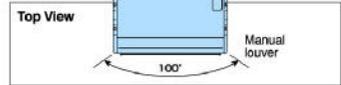
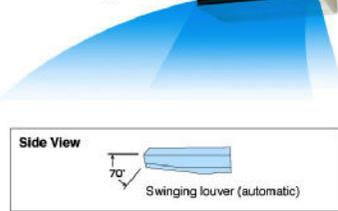
## Wide Air Discharge, Comfortable Control

### • Wide-Angle Airflow — 100 Degrees Horizontal



Wall-to-Wall Comfort Even in Large Rooms

### • Auto Swing Louver



## Versatile Functions

- Auto Restart Function
- Auto Fan Mode
- Weekly Timer (Wired Remote Controller only)
- 24-Hour On/Off Real Setting Timer
- Odour Wash
- Economy Mode
- Low Ambient Cooling Operation  
\*See page 16 for details.
- Auto Changeover Function (Heat Pump Model)
- Dry Mode Function
- Hot Start Control
- Self-Diagnostic Function
- Optional: SUPER Allergo-buster filter (CZ-SA12P)

## Specifications Non-Inverter Models

Items	Cooling Capacity	Heating Capacity	Power Source	Current	Power Input	EER COP	Annual Energy Consumption	Air Volume	NoiseLevel*				Dimensions		Net Weight		Piping Connection		Pipe Length				Operation Range (Outdoor)**
									Sound Pressure Level	Outdoor (H) Cooling	Outdoor (H) Heating	Outdoor (H) Cooling	Indoor	Outdoor	Indoor	Outdoor	Gas Side	Liquid Side	Min - Max Length	Elevation Difference (CU up)**	Max. Charge-less Length	Additional Gas	
<b>CS-F18DTE5 CU-J18DBE5</b>	5.00 17,100	—	1ϕ 220-240 50	8.1	1.81 (1.78-1.84)	2.76D	905	14	41/37	49	58	65	210 1,245 700	795 900 320	33	56	12.7 (1/2)	6.35 (1/4)	7.5-30	(20) 20	20	50	5-43 -10-24
<b>CS-F24DTE5 CU-J24DBE5</b>	6.60 22,500	—	1ϕ 220-240 50	13.3	2.63 (2.59-2.68)	2.51E	1,315	17	43/38	50	60	66	210 1,245 700	795 900 320	33	61	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
<b>CS-F24DTE5 CU-J24DBE8</b>	6.60 22,500	—	3ϕ 380-415 50	4.6	2.63 (2.59-2.68)	2.51E	1,315	17	43/38	50	60	66	210 1,245 700	795 900 320	33	61	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
<b>CS-F28DTE5 CU-J28DBE5</b>	7.30 24,900	—	1ϕ 220-240 50	13.0	2.85 (2.80-2.90)	2.59E	1,425	18	45/41	52	62	67	210 1,245 700	795 900 320	33	61	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
<b>CS-F28DTE5 CU-J28DBE8</b>	7.30 24,900	—	3ϕ 380-415 50	4.95	2.85 (2.80-2.90)	2.59E	1,425	18	45/41	52	62	67	210 1,245 700	795 900 320	33	61	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
<b>CS-F34DTE5 CU-J34DBE5</b>	10.00 34,100	—	1ϕ 220-240 50	18.5	4.02 (3.97-4.07)	2.49E	2,010	29	47/43	55	64	69	250 1,600 700	1,170 1,800 320	43	92	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
<b>CS-F34DTE5 CU-J34DBE8</b>	10.00 34,100	—	3ϕ 380-415 50	6.1	3.89 (3.84-3.94)	2.57E	1,945	29	47/43	55	64	69	250 1,600 700	1,170 1,800 320	43	90	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
<b>CS-F43DTE5 CU-J43DBE5</b>	12.50 42,800	—	3ϕ 380-415 50	8.2	4.89 (4.84-4.94)	2.59E	2,445	31	49/45	56	66	70	250 1,600 700	1,170 1,800 320	47	97	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
<b>CS-F50DTE5 CU-J50DBE8</b>	13.50 46,000	—	3ϕ 380-415 50	8.6	5.28 (5.23-5.33)	2.59E	2,640	32	50/46	56	67	70	250 1,600 700	1,170 1,800 320	47	97	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
<b>CS-F18DTE5 CU-B18DBE5</b>	5.00 17,100	5.60 19,100	1ϕ 220-240 50	8.1	1.81 (1.78-1.84) 1.74 (1.71-1.77)	2.76D 3.22C	905	14	41/37 41/37	49 50	58 58	65 66	210 1,245 700	795 900 320	33	57	12.7 (1/2)	6.35 (1/4)	7.5-30	(20) 20	20	50	5-43 -10-24
<b>CS-F24DTE5 CU-B24DBE5</b>	6.60 22,500	7.10 24,200	1ϕ 220-240 50	12.6	2.51 (2.51-2.63) 2.43 (2.44-2.52)	2.57E 2.85D	1,285	17	43/39 43/39	50 51	60 60	66 67	210 1,245 700	795 900 320	33	69	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
<b>CS-F28DTE5 CU-B28DBE5</b>	7.30 24,900	7.80 26,800	1ϕ 220-240 50	12.9	2.85 (2.80-2.90) 2.75 (2.70-2.80)	2.59E 2.84D	1,425	18	45/41 45/41	53 53	62 62	68 68	210 1,245 700	795 900 320	33	69	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
<b>CS-F28DTE5 CU-B28DBE8</b>	7.30 24,900	7.80 26,800	3ϕ 380-415 50	4.9	2.85 (2.80-2.90) 2.75 (2.70-2.80)	2.59E 2.84D	1,425	18	45/41 45/41	53 53	62 62	68 68	210 1,245 700	795 900 320	33	69	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
<b>CS-F34DTE5 CU-B34DBE5</b>	10.00 34,100	11.20 38,200	1ϕ 220-240 50	18.2	3.90 (3.85-3.95) 3.99 (3.94-4.04)	2.59E 2.81D	1,950	29	47/43 47/43	55 56	64 64	69 70	250 1,600 700	1,170 1,800 320	43	102	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
<b>CS-F34DTE5 CU-B34DBE8</b>	10.00 34,100	11.20 38,200	3ϕ 380-415 50	6.1	3.77 (3.72-3.82) 3.91 (3.86-3.96)	2.65D 2.86D	1,885	29	47/43 47/43	55 56	64 64	69 70	250 1,600 700	1,170 1,800 320	43	100	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
<b>CS-F43DTE5 CU-B43DBE5</b>	12.50 42,800	14.00 47,700	3ϕ 380-415 50	8.0	4.75 (4.70-4.80) 4.69 (4.64-4.74)	2.63D 2.99D	2,375	31	49/45 49/45	57 56	66 66	71 71	250 1,600 700	1,170 1,800 320	47	102	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24
<b>CS-F50DTE5 CU-B50DBE8</b>	13.50 46,000	15.00 51,100	3ϕ 380-415 50	8.6	5.11 (5.11-5.20) 5.03 (4.98-5.08)	2.82D 2.98D	2,580	32	50/46 50/46	56 57	67 67	71 71	250 1,600 700	1,170 1,800 320	47	102	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	5-43 -10-24

## Rating Conditions

	Cooling	Heating
Inside air temperature	27°C DB/19°C WB	20°C DB
Outside air temperature	35°C DB/24°C WB	7°C DB/6°C WB

\* The Sound Pressure Level of the outdoor unit shows the value measured at a position 1 meter in front of the main body and 1.5 meters from the ground.

\*\* When installing the outdoor unit at a higher position than the indoor unit, cooling operation at -16°C (inverter L series) / -10°C (non-inverter) is possible in non-residential computer rooms, etc., where the temperature is not less than 21°C and humidity is not more than 45%.

\*\*\* Cooling operation at -16°C (inverter L series) / -10°C (non-inverter) is possible in non-residential computer rooms, etc., where the temperature is not less than 21°C and humidity is not more than 45%.

# Add 70mm for piping port.

EEL: Energy Efficiency Labeling Scheme

## Specifications Inverter Models

Items	Cooling Capacity	Heating Capacity	Power Source	Power Input	Current	EER COP	Annual Energy Consumption	Air Volume	Sound Pressure Level				Dimensions		Net Weight		Piping Connection		Pipe Length				Operation Range (Outdoor)**
									Indoor (H/L) Cooling	Outdoor (H) Cooling	Indoor (H) Heating	Outdoor (H) Heating	Indoor	Outdoor	Indoor	Outdoor	Gas Side	Liquid Side	Min - Max Length	Elevation Difference (CU up)**	Max. Charge-less Length	Additional Gas	
<b>CS-F24DTE5 CU-L24DBE5</b>	6.50 (6.18-6.83)	7.10 (6.77-7.81)	1ϕ 220-240 50	1.96 (1.92-2.00)	8.9 10.0	3.21A 3.21C	980	17	43/39	47	60	63	210 1,245 700	795 900 320	33	71	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -20-24
<b>CS-F28DTE5 CU-L28DBE5</b>	8.10 (7.78-8.80)	8.70 (8.37-9.80)	1ϕ 220-240 50	2.44 (2.40-2.48)	11.1 12.0	2.91C	1,220	18	45/41	48	62	64	210 1,245 700	795 900 320	33	71	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -20-24
<b>CS-F34DTE5 CU-L34DBE5</b>	10.00 (9.68-10.90)	10.70 (10.37-11.90)	1ϕ 220-240 50	3.00 (2.96-3.04)	13.0 14.9	3.41B	1,500	29	47/43	52	64	68	250 1,600 700	1,340 1,900 320	43	110	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -20-24
<b>CS-F34DTE5 CU-L34DBE8</b>	10.00 (9.68-10.90)	10.70 (10.37-11.90)	3ϕ 380-415 50	3.00 (2.96-3.04)	13.0 14.9	3.41B	1,500	29	47/43	52	64	68	250 1,600 700	1,340 1,900 320	43	105	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -20-24
<b>CS-F43DTE5 CU-L43DBE5</b>	12.50 (12.18-13.90)	13.20 (12.87-14.90)	1ϕ 220-240 50	4.15 (4.11-4.21)	18.8 19.2	3.01B 3.02B	2,075	31	49/45	53	66	69	250 1,600 700	1,340 1,900 320	47	110	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -20-24
<b>CS-F43DTE5 CU-L43DBE8</b>	12.50 (12.18-13.90)	13.20 (12.87-14.90)	3ϕ 380-415 50	4.15 (4.11-4.21)	18.8 19.2	3.01B 3.02B	2,075	31	49/45	53	66	69	250 1,600 700	1,340 1,900 320	47	105	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -20-24
<b>CS-F50DTE5 CU-L50DBE8</b>	15.00 (14.68-16.90)	15.70 (15.37-16.90)	3ϕ 380-415 50	4.81 (4.77-4.87)	24.0 24.4	2.91C 3.41B	2,405	32	50/46	54	67	70	250 1,600 700	1,340 1,900 320	47	105	15.88 (5/8)	9.53 (3/8)	7.5-50	(30) 20	30	50	-5-43 -20-24
<b>CS-F24DTE5 CU-YL24HBE5</b>	5.60 (5.28-6.30)	6.10 (5.77-6.80)	1ϕ 220-240 50	1.90 (1.86-1.94)	8.9 11.2	2.81C 2.81D	985	17	43/39	47	60	68	210 1,245 700	795 900 320	33	65	15.88 (5/8)	9.52 (3/8)	7.5-30	(25) 20	30	-	-5-43 -15-24
<b>CS-F28DTE5 CU-YL28HBE5</b>	7.00 (6.68-7.70)	7.50 (7.17-8.20)	1ϕ 220-240 50	2.30 (2.26-2.34)	11.2 12.8	2.81C 2.81D	1,265	18	45/41	52	62	69	210 1,245 700	795 900 320	33	65	15.88 (5/8)	9.52 (3/8)	7.5-30	(25) 20	30	-	-5-43 -15-24
<b>CS-F34DTE5 CU-YL34HBE5</b>	8.80 (8.48-9.90)	9.30 (8.97-10.20)	1ϕ 220-240 50	3.85 (3.81-3.89)	17.5 19.0	2.61D 3.21C	1,915	29	47/43	53	64	71	250 1,600 700	1,340 1,900 320	43	66	15.88 (5/8)	9.52 (3/8)	7.5-50	(30) 20	30	50	-5-43 -15-24
<b>CS-F43DTE5 CU-YL43HBE5</b>	11.50 (11.18-12.90)	12.20 (11.87-13.20)	1ϕ 220-240 50	4.40 (4.36-4.46)	20.3 19.4	2.81C 3.31C	2,225	31	49/														

# Outdoor Units

NON-INVERTER



L Series



YL Series

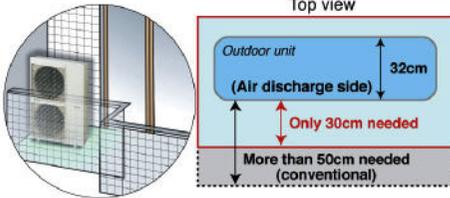


## Flexible Installation in Smaller Spaces

A variety of improvements has reduced installation time and space.

### • Space-Saving Outdoor Unit

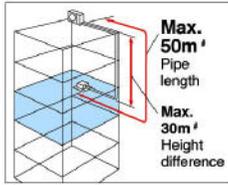
By improving the fan, we were able to make the outdoor unit small enough to fit in spaces too tight for conventional units.



### • 50m Long Piping

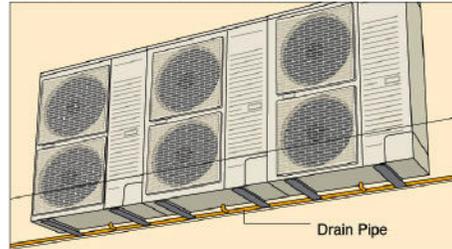
Piping can be extended up to 30 meters without additional gas charging, and up to 50 meters with additional gas charging.

By giving you more flexibility in positioning the outdoor unit, this gives you a wider range of installation options.



### • Centralized Drain Method

The drain outlets can be gathered into a single drain pipe even when multiple outdoor units are installed to a wall.



### • Side-by-Side Continuous Installation

Even outdoor units with different capacities can be installed side by side in an efficient, orderly layout. To make this possible, we have positioned the service port in the front and given all models the same depth.

\*Except YL series 2.5 - 3HP

## Quiet, Efficient Design Fan

A host of silencing technologies achieves super-quiet operation. We've also improved operating efficiency and reduced energy consumption.



Noise-Suppressing Winglet Fan

## Low Ambient Cooling Operation

The unit can be used for cooling even when the outdoor temperature is extremely low. This is ideal for locations that require cooling even in winter.

### • Regular cooling conditions:

- <Inverter L series> -5°C\* to 43°C (outdoor temperature)
- <Inverter YL series> -5°C\* to 43°C (outdoor temperature)
- <Non-Inverter> 5°C\* to 43°C (outdoor temperature)

\* Cooling operation at -15°C <Inverter L series> / -10°C <Non-Inverter> is possible in non-residential computer rooms, etc., where the temperature is not less than 21°C and humidity is not more than 45%.

### • Regular heating conditions:

- <Inverter L series> -20°C to 24°C (outdoor temperature)
- <Inverter YL series> -15°C to 24°C (outdoor temperature)
- <Non-Inverter> -10°C to 24°C (outdoor temperature)

### Allowable Pipe Length (except YL series)

	1.5-2.0HP	2.5-3.0HP	4.0HP	5.0-6.0HP
Max. Length †	30 m	50 m	50 m	50 m
Max. Chargeless Length	20 m	30 m	30 m	30 m
Max. Height Difference †	20 m	30 m <sup>*1</sup> 20 m <sup>*2</sup>	30 m <sup>*1</sup> 20 m <sup>*2</sup>	30 m <sup>*1</sup> 20 m <sup>*2</sup>

### YL Series

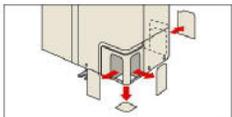
	2.5-3.0HP	4.0HP	5.0HP
Max. Length †	30 m	50 m	50 m
Max. Chargeless Length	30 m	30 m	30 m
Max. Height Difference †	25 m <sup>*1</sup> 20 m <sup>*2</sup>	30 m <sup>*1</sup> 20 m <sup>*2</sup>	30 m <sup>*1</sup> 20 m <sup>*2</sup>

†Gas is pre-charged for 30m. (Additional gas is required when pipe length is extended.)  
<sup>\*1</sup> When installing the outdoor unit at a higher position than the indoor unit.  
<sup>\*2</sup> When installing the outdoor unit at a lower position than the indoor unit.

### • Flexible 4-Way Piping

Piping can be routed in any of four directions.

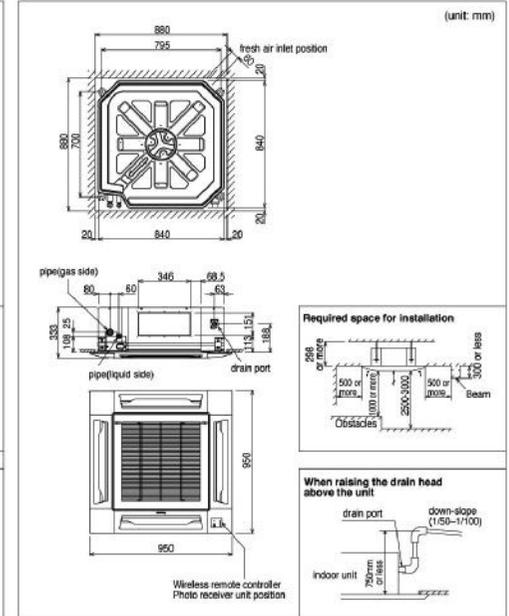
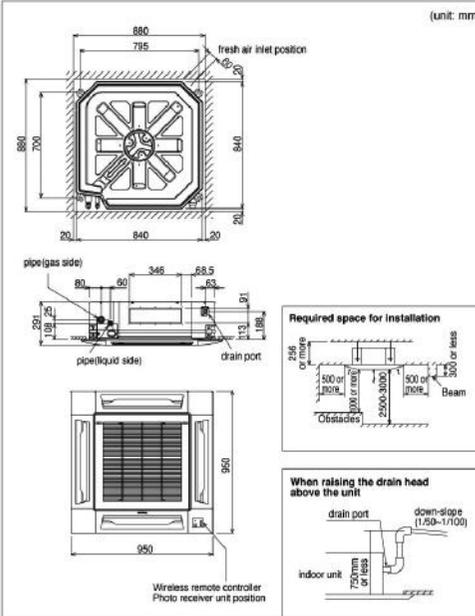
\*Except YL series 2.5 - 3HP



## CASSETTE TYPE

CS-F14DB4E5/CS-F18DB4E5/CS-F24DB4E5/CS-F28DB4E5

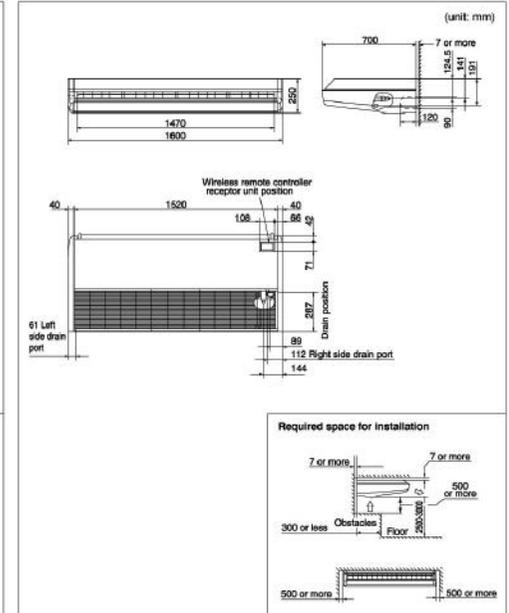
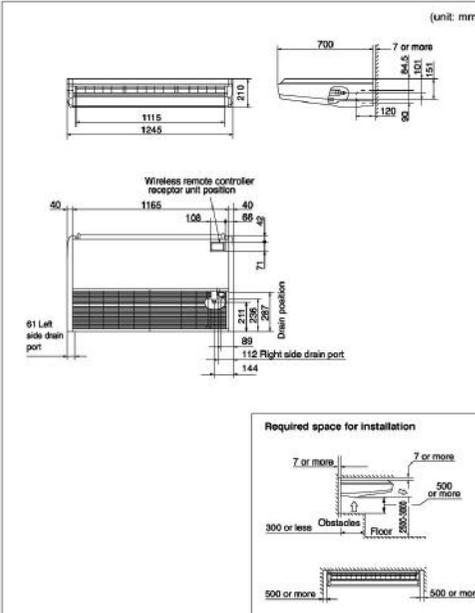
CS-F34DB4E5/CS-F43DB4E5/CS-F50DB4E5



## CEILING TYPE

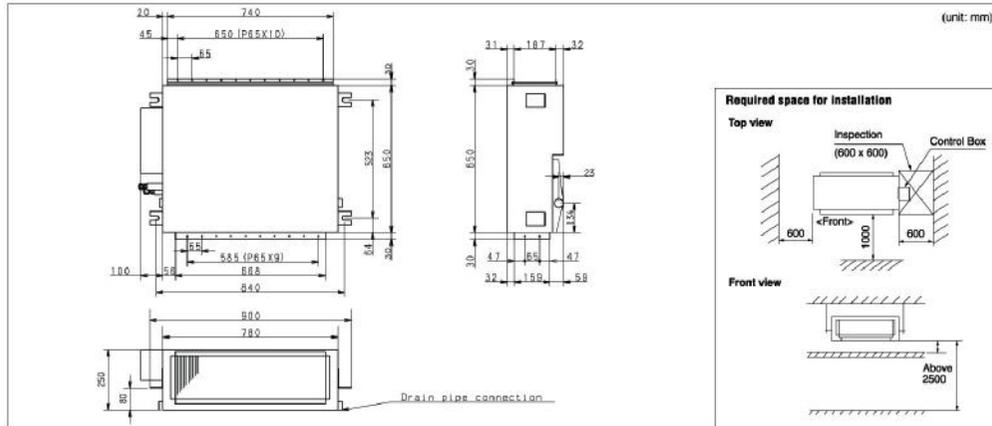
CS-F18DTE5/CS-F24DTE5/CS-F28DTE5

CS-F34DTE5/CS-F43DTE5/CS-F50DTE5

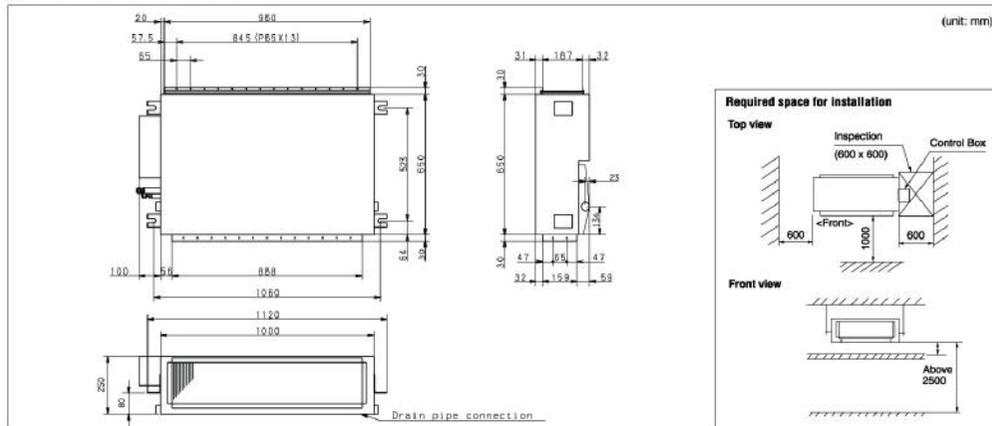


## HIDE-AWAY TYPE (LOW STATIC PRESSURE MODELS)

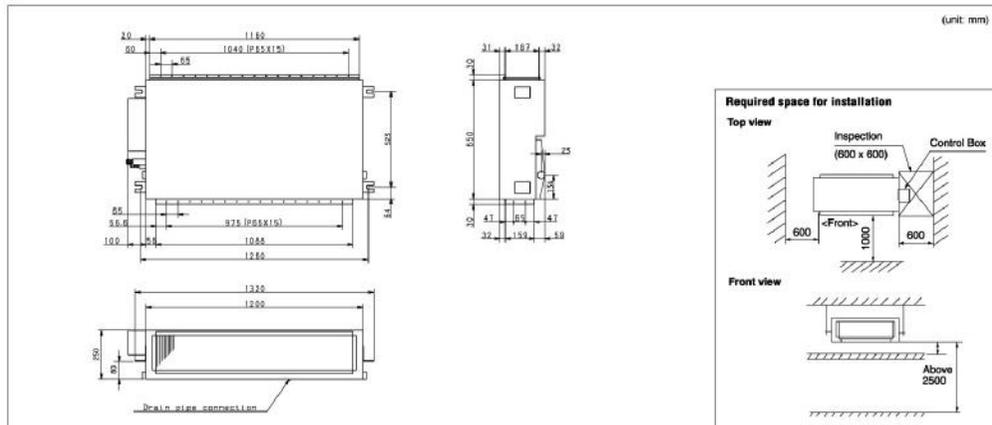
### CS-F14DD3E5/CS-F18DD3E5



### CS-F24DD3E5/CS-F28DD3E5

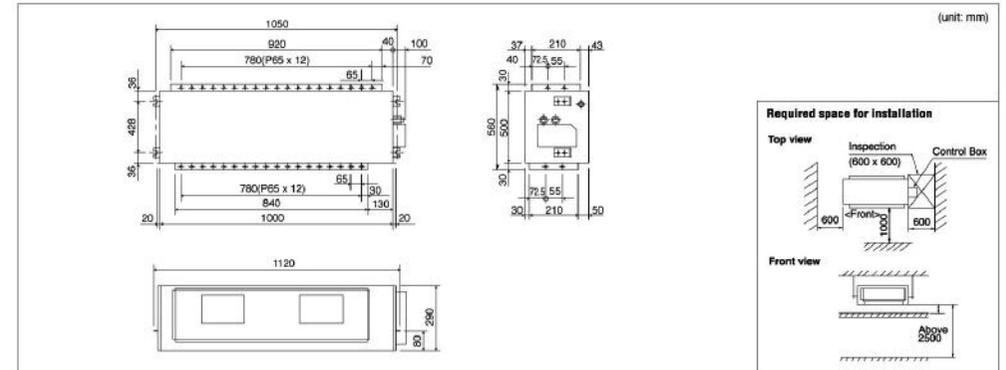


### CS-F34DD3E5/CS-F43DD3E5/CS-F50DD3E5

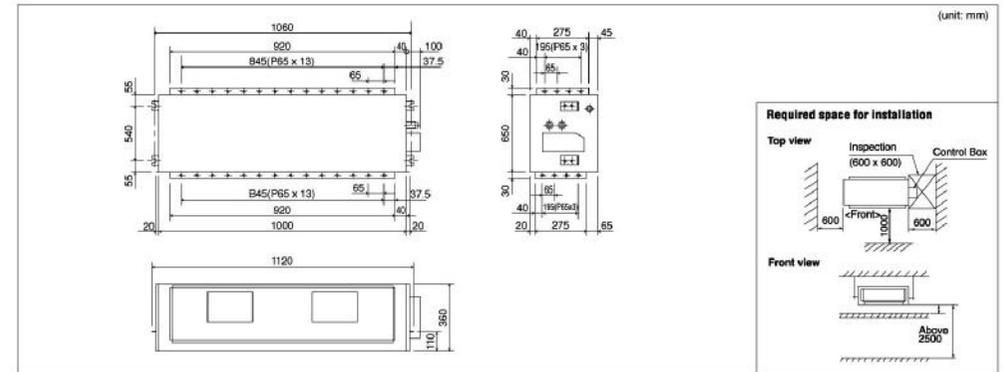


## HIDE-AWAY TYPE (MIDDLE STATIC PRESSURE MODELS)

### CS-F24DD2E5/CS-F28DD2E5

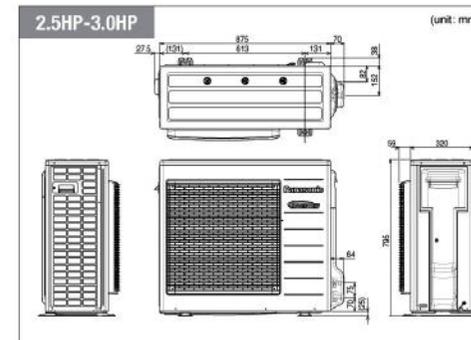


### CS-F34DD2E5/CS-F43DD2E5/CS-F50DD2E5



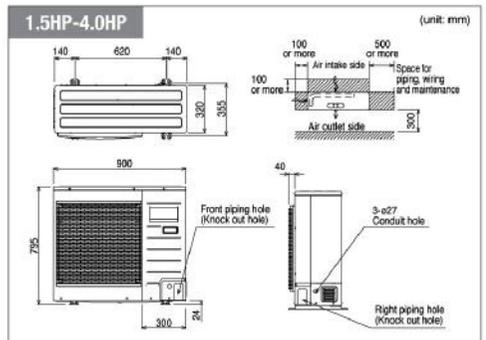
## OUTDOOR UNITS

### Inverter: CU-YL24HBE5/CU-YL28HBE5



### Inverter: CU-L24BE5/CU-L28BE5/CU-YL34HBE5

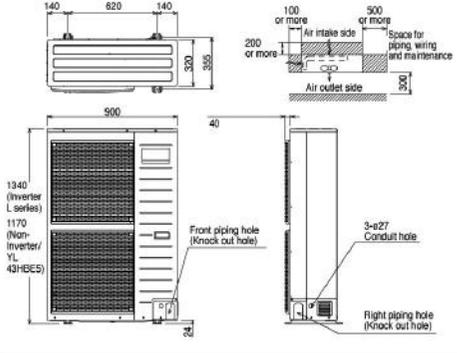
Non-Inverter: CU-B14DBE5/CU-B18DBE5/CU-B24DBE5/CU-B28DBE5/  
CU-B28DBE8/CU-J14DBE5/CU-J18DBE5/CU-J24DBE5/  
CU-J24DBE8/CU-J28DBE5/CU-J28DBE8



## OUTDOOR UNITS

### 4.0HP-6.0HP

(unit: mm)



**Inverter:** CU-L34DBE5/CU-L34DBE8/CU-L43DBE5/CU-L43DBE8/  
CU-L50DBE8/CU-YL43HBE5  
**Non-Inverter:** CU-B34DBE5/CU-B34DBE8/CU-B43DBE8/CU-B50DBE8  
CU-J34DBE5/CU-J34DBE8/CU-J43DBE8/CU-J50DBE8

## Remote Controller

### Wired Remote Controller

**CZ-RD513C**  
(For Cassette Type and Ceiling Type)



\* A wired remote controller is included with hide-away types.

### Wireless Remote Controller

**Heat Pump Models**  
**CZ-RL513B** (For Cassette Type) **CZ-RL013B** (For Cassette Type)  
**CZ-RL513T** (For Ceiling Type) **CZ-RL013T** (For Ceiling Type)

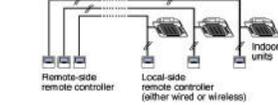


### Group Control by a Single Remote Controller



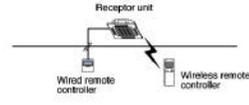
• All indoor units operate in the same mode.

### Separate Control by Twin Remote Controllers



• Each indoor unit can be operated by either of the two remote controllers.  
• Apart from the timer setting time, the displays for the two remote controllers are identical.  
• The last button pressed has priority (The main or slave attribute is set with the remote controller).

### Common Control by Both Wired and Wireless Remote Controllers



• The last button pressed has priority (using either wired or wireless remote controllers).

## Optional Accessories

### SUPER alleru-buster filter



**CZ-SA11P**  
(For Cassette Type)  
**CZ-SA12P**  
(For Ceiling Type)

### Branch Pipe Set

Connects indoor units of the same type and capacity in a twin-unit configuration.

**CZ-H2H53DP**  
(For 3.0-4.0 HP)  
**CZ-H2H53EP**  
(For 5.0-6.0 HP)

## Indoor Unit Combination

### Twin Unit Configuration (Simultaneous Operation)

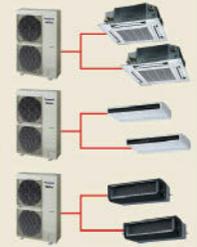
Indoor units of the same type and capacity can be connected in a twin-unit configuration. (Simultaneous operation)

\* An optional branch pipe set (CZ-H2H53DP for 3.0-4.0 HP, CZ-H2H53EP for 5.0-6.0 HP) is required.

Indoor Unit	Cassette	Hide-Away (Low Static Pressure)	Hide-Away (Middle Static Pressure)	Ceiling
3.0 HP	3.0 1.5	3.0 1.5		
4.0 HP	4.0 2.0	4.0 2.0		4.0 2.0
5.0 HP	5.0 2.5	5.0 2.5	5.0 2.5	5.0 2.5
6.0 HP*	6.0 3.0	6.0 3.0	6.0 3.0	6.0 3.0

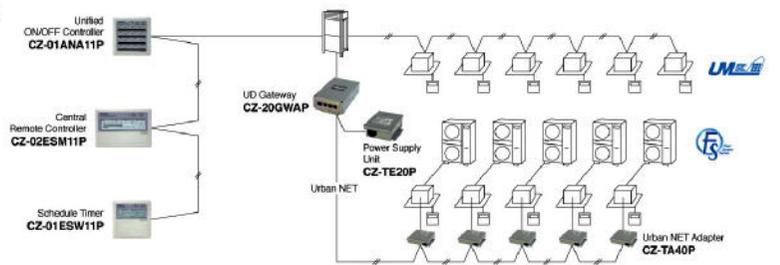
□ : Outdoor Unit Capacity    □ : Indoor Unit Capacity

\*Except YL series

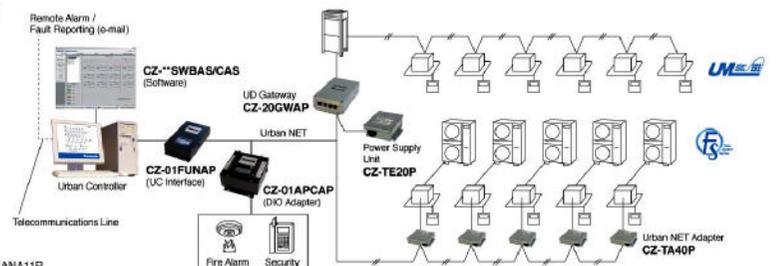


## Centralized Control System

### System Example with Centralized Control (UM NET)

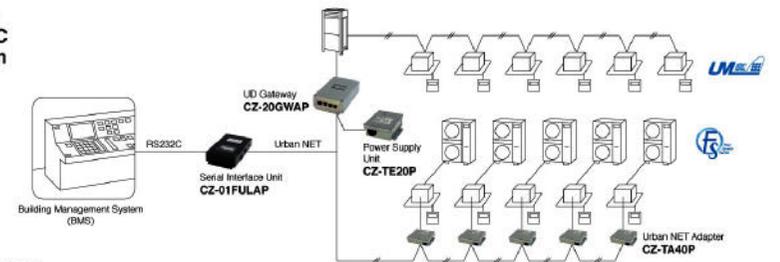


### System Example with Urban Controller



Cannot be used with the CZ-01ANA11P, CZ-02ESM11P, or CZ-01ESW11P.

### System Example with BMS RS232C Serial Connection



Cannot be used with the CZ-01ANA11P, CZ-02ESM11P, or CZ-01ESW11P.

## Equipment of the Centralized Control System (Optional Parts)

	<b>Interface Adapter for External Signals</b>	<b>CZ-TA31P</b>	<ul style="list-style-type: none"> <li>By connecting to the indoor unit, a separately sold ventilator can be controlled.</li> <li>Remote operation control of the indoor unit is enabled (ON/OFF control).</li> <li>The operating condition of the indoor unit (malfunctions, operating status) can be externally output.</li> <li>Control in linkage with a Energy Recovery Ventilators (ERV) and the like is possible.</li> </ul>
	<b>Urban NET Adapter</b>	<b>CZ-TA40P</b>	<ul style="list-style-type: none"> <li>Communications converter for centralized control of indoor units.</li> </ul>
	<b>Adapter for Address Set-Up</b>	<b>CZ-TA50P</b>	<ul style="list-style-type: none"> <li>Printed Circuit Board for manually setting centralized addresses of indoor units. Used to set addresses before turning on the indoor unit power, and when there is no handheld remote controller.</li> </ul>
	<b>Power Supply Unit</b>	<b>CZ-TE20P</b>	<ul style="list-style-type: none"> <li>Power supply for Urban NET. Set one unit per network.</li> </ul>
	<b>UD Gateway for Urban NET and UM NET</b>	<b>CZ-20GWAP</b>	<ul style="list-style-type: none"> <li>Controllable indoor units: 64</li> <li>Air Conditioner control functions:                             <ul style="list-style-type: none"> <li>ON/OFF</li> <li>Operating mode</li> <li>Set temperature</li> <li>Airflow volume</li> <li>Air direction</li> <li>Operating location</li> <li>Error display</li> <li>Thermostat ON/OFF</li> <li>Filter display</li> <li>Room temperature</li> </ul> </li> </ul>
	<b>Serial Interface Unit</b>	<b>CZ-01FULAP</b>	<ul style="list-style-type: none"> <li>Controllable indoor units: 64</li> <li>External connection: RS232C</li> </ul> <p>Consult your local sales company or distributor for details concerning air conditioner control functions.</p>
	<b>Central Remote Controller</b>	<b>CZ-02ESM11P</b>	<ul style="list-style-type: none"> <li>Maximum connectable indoor units: 64</li> <li>Remote ON/OFF</li> <li>Individual indoor unit control, monitoring: Total/Group</li> <li>Weekly timer*                             <ul style="list-style-type: none"> <li>*Separate Schedule Timer (CZ-01ESW11P) required.</li> </ul> </li> <li>Individual monitoring of operation/error status</li> <li>Operating location: Remote/Common</li> <li>Display text: English</li> </ul>
	<b>Unified ON/OFF Controller</b>	<b>CZ-01ANA11P</b>	<ul style="list-style-type: none"> <li>Maximum connectable indoor units: 16</li> <li>Remote ON/OFF</li> <li>Individual indoor unit control, monitoring: Total/Group</li> <li>Operating location: Remote/Common</li> <li>Display text: English</li> </ul>
	<b>Schedule Timer</b>	<b>CZ-01ESW11P</b>	<ul style="list-style-type: none"> <li>All ON/OFF on a weekly schedule</li> <li>Two operation stops/day</li> <li>Combines with Central Remote Controller (CZ-02ESM11P)</li> <li>Display text: English</li> </ul>

## The System of Model Numbers(FS, Semi FS)

<b>CS</b>	<b>-</b>	<b>F</b>	<b>28</b>	<b>D</b>	<b>B4</b>	<b>E</b>	<b>5</b>	<b>□</b>
<b>CU</b>	<b>-</b>	<b>L</b>	<b>28</b>	<b>D</b>	<b>B</b>	<b>E</b>	<b>5</b>	<b>□</b>
①	②	③	④	⑤	⑥			

① **Model Type**  
 CS: Split Type (Indoor Unit)  
 CU: Split Type (Outdoor Unit)  
 CZ: Accessories

② **Function**  
**Indoor Unit**  
 E: Inverter Heat Pump  
 F: Can be used with Inverter, Non-Inverter, Cooling Only, and Heat Pump Models  
**Outdoor Unit**  
 E: Inverter Heat Pump  
 L, YL: Inverter Models  
 J: Non-Inverter Cooling Only Models  
 B: Non-Inverter Heat Pump Models

③ **Capacity**  
 Value = Capacity (Btu/h) x 1/1000 e.g. 28,000 Btu/h x 1/1000 = 28

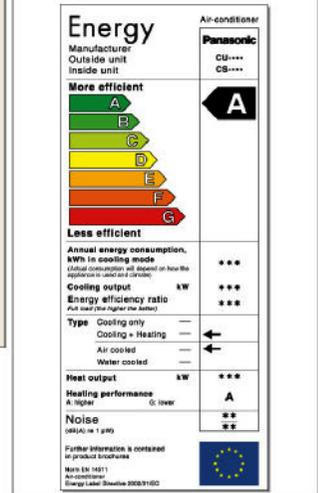
④ **Type**  
**Split Type: Indoor/Outdoor Unit**  
 B4: Cassette (4-Way)  
 D2: Hide-Away (Middle Static Pressure Models)  
 D3: Hide-Away (Low Static Pressure Models)  
 T: Ceiling  
 B: Outdoor Unit for Cassette, Ceiling and Hide-Away Type Indoor Unit

⑤ **Power Supply**  
 5: 50Hz (Single Phase)  
 8: 50Hz (3-Phase)

⑥ **A: Annual Cooling**

## Energy-Saving Classification

There are seven classifications of energy efficiency, from A to G. The most efficient level is "A".



**ISO 9001 Series Certification**

**QUALITY SYSTEM**  
 SIRIM

**CERTIFIED TO MS ISO 9001: 2000**  
 Panasonic HA Air-Conditioning (M) Sdn. Bhd. (PHAAM)  
 Registration No.: AR 1010

**tuv CERT**  
 ISO 9001:2000  
 JIS Q 9001:2000  
 No. 09 100 5766

**CERTIFIED TO DIN EN ISO 9001: 2000**  
 MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.  
 Matsushita Home Appliances Company  
 Air-Conditioner Business Unit  
 Certificate Registration No.09 100 5766

**Environmental Management Systems Approval Certificate**

**ENVIRONMENTAL SYSTEM**  
 SIRIM

**UKAS ENVIRONMENTAL MANAGEMENT**  
 074  
 MS ISO 14001 CERT. NO.: P06860001

**CERTIFIED TO MS ISO 14001: 2004**  
 Panasonic HA Air-Conditioning (M) Sdn. Bhd. (PHAAM)  
 Certification No.: P06860001

**ISO 14001 QUALITY SYSTEM**  
 UKAS ENVIRONMENTAL MANAGEMENT  
 001

**CERTIFIED TO ISO 14001: 2004**  
 MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.  
 Matsushita Home Appliances Company  
 Air-Conditioner Business Unit  
 saApproval Certificate No.: YKA 0771754