

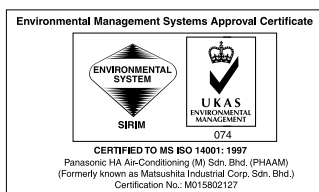
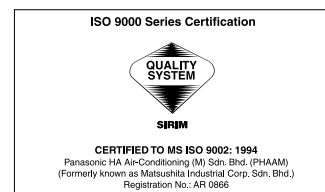
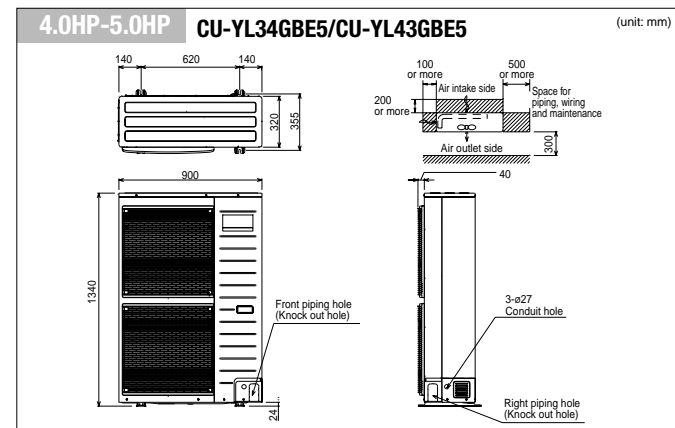
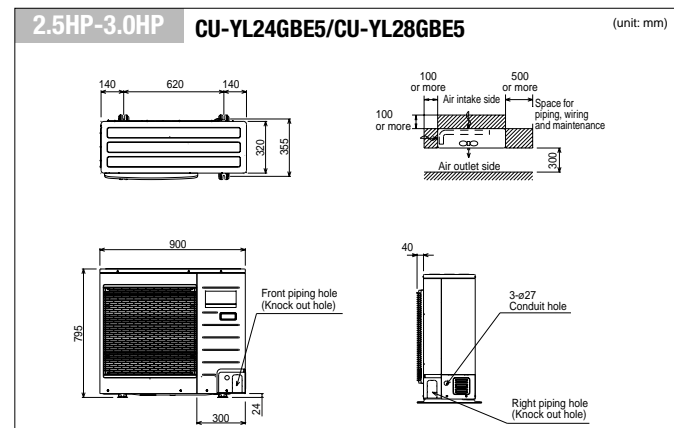
Specifications

Items	Cooling Capacity	Heating Capacity	Power Source	Power Input	EER COP	Air Volume	External Static Pressure	Noise Level*				Dimensions		Net Weight	Piping Connection		Pipe Length			Energy Saving Classification			
								Sound Pressure Level	Outdoor (Hi/Lo) Cooling Heating	Outdoor (Hi) Cooling Heating	Outdoor (Hi) Cooling Heating	Outdoor (Hi) Cooling Heating	Indoor (Panel)		Outdoor (Panel)	Gas Side	Liquid Side	Max. Length**	Max. Height	Max. Chargeless Length	Cooling Class	Annual Energy Consumption	Heating Class
Indoor/Outdoor	kW/Btu/h	kW/Btu/h	Phase V/Hz	kW	W/W	m ³ /min	Pa (mmHg)	dB(A)	dB(A)	dB	dB	mm (H/W/D)	mm (H/W/D)	kg	kg	O.D. mm (inch)	O.D. mm (inch)	m	m	m		kWh	
Cassette Type																							
CS-F24DB4E5 CZ-BT03P CU-YL24GBE5	5.60 19,100	7.00 23,900	1 230-240 50	1.90 2.12	2.95 3.30	18 18	-	36/32 36/32	49 51	51/47 51/47	65 67	246 (950) 840 (950) 840 (45)	795 900 320	26 69	69	15.88 (5/8)	9.53 (3/8)	30	15	20	C	950	C
CS-F28DB4E5 CZ-BT03P CU-YL28GBE5	7.10 24,200	8.00 27,300	1 230-240 50	2.38 2.37	2.98 3.38	20 20	-	38/33 38/33	50 52	53/48 53/48	66 68	246 (950) 840 (950) 840 (45)	795 900 320	26 69	69	15.88 (5/8)	9.53 (3/8)	30	15	20	C	1,190	C
CS-F34DB4E5 CZ-BT03P CU-YL34GBE5	10.00 34,100	11.20 38,200	1 230-240 50	3.56 3.31	2.81 3.38	27 27	-	42/37 42/37	54 56	57/52 57/52	68 70	288 (950) 840 (950) 840 (45)	1,340 900 320	28.5 107	107	15.88 (5/8)	9.53 (3/8)	30	15	20	C	1,780	C
CS-F43DB4E5 CZ-BT03P CU-YL43GBE5	12.50 42,600	14.00 47,700	1 230-240 50	4.24 4.18	2.95 3.35	31 31	-	46/41 46/41	55 57	61/56 61/56	69 71	288 (950) 840 (950) 840 (45)	1,340 900 320	28.5 107	107	15.88 (5/8)	9.53 (3/8)	30	15	20	C	2,120	C
Ceiling Type																							
CS-F24DTE5 CU-YL24GBE5	5.60 19,100	7.00 23,900	1 230-240 50	2.14 2.28	2.62 3.07	17 17	-	43/39 43/39	49 51	60/56 60/56	65 67	210 1,245 700	795 900 320	33 69	69	15.88 (5/8)	9.53 (3/8)	30	15	20	D	1,070	D
CS-F28DTE5 CU-YL28GBE5	7.10 24,200	8.00 27,300	1 230-240 50	2.53 2.75	2.81 2.91	18 18	-	45/41 45/41	50 52	62/58 62/58	66 68	210 1,245 700	795 900 320	33 69	69	15.88 (5/8)	9.53 (3/8)	30	15	20	C	1,265	D
CS-F34DTE5 CU-YL34GBE5	10.00 34,100	11.20 38,200	1 230-240 50	3.56 3.49	2.81 3.21	29 29	-	47/43 47/43	54 56	64/60 64/60	68 70	250 1,600 700	1,340 900 320	43 107	107	15.88 (5/8)	9.53 (3/8)	30	15	20	C	1,780	C
CS-F43DTE5 CU-YL43GBE5	12.50 42,600	14.00 47,700	1 230-240 50	4.44 4.23	2.82 3.31	31 31	-	49/45 49/45	55 57	66/62 66/62	69 71	250 1,600 700	1,340 900 320	47 107	107	15.88 (5/8)	9.53 (3/8)	30	15	20	C	2,220	C
Hide-Away Type / Low Static Pressure Models																							
CS-F24DD3E5 CU-YL24GBE5	5.60 19,100	7.00 23,900	1 230-240 50	1.98 2.12	2.83 3.30	22 22	50 (5.1)	43/39 43/39	49 51	59/55 59/55	65 67	250 1,000+100* 650	795 900 320	41 69	69	15.88 (5/8)	9.53 (3/8)	30	15	20	C	990	C
CS-F28DD3E5 CU-YL28GBE5	7.10 24,200	8.00 27,300	1 230-240 50	2.53 2.49	2.81 3.21	22 22	50 (5.1)	43/39 43/39	50 52	59/55 59/55	66 68	250 1,000+100* 650	795 900 320	41 69	69	15.88 (5/8)	9.53 (3/8)	30	15	20	C	1,265	C
CS-F34DD3E5 CU-YL34GBE5	10.00 34,100	11.20 38,200	1 230-240 50	3.36 3.49	2.98 3.21	36 36	50 (5.1)	45/41 44/40	54 56	60/56 59/55	68 70	250 1,200+100* 650	1,340 900 320	47 107	107	15.88 (5/8)	9.53 (3/8)	30	15	20	C	1,680	C
CS-F43DD3E5 CU-YL43GBE5	12.50 42,600	14.00 47,700	1 230-240 50	4.45 4.36	2.81 3.21	40 40	50 (5.1)	45/41 44/40	55 57	60/56 59/55	69 71	250 1,200+100* 650	1,340 900 320	47 107	107	15.88 (5/8)	9.53 (3/8)	30	15	20	C	2,225	C
Hide-Away Type / Middle Static Pressure Models																							
CS-F24DD2E5 CU-YL24GBE5	5.60 19,100	7.00 23,900	1 230-240 50	1.98 2.12	2.83 3.30	22 22	69 (7.0)	45/41 43/39	49 51	61/57 59/55	65 67	290 1,000+100* 500	795 900 320	35 69	69	15.88 (5/8)	9.53 (3/8)	30	15	20	C	990	C
CS-F28DD2E5 CU-YL28GBE5	7.10 24,200	8.00 27,300	1 230-240 50	2.53 2.49	2.81 3.21	22 22	69 (7.0)	45/41 43/39	50 52	61/57 59/55	66 68	290 1,000+100* 500	795 900 320	35 69	69	15.88 (5/8)	9.53 (3/8)	30	15	20	C	1,265	C
CS-F34DD2E5 CU-YL34GBE5	10.00 34,100	11.20 38,200	1 230-240 50	3.44 3.49	2.91 3.21	38 38	98 (10.0)	49/45 47/44	54 56	64/60 62/59	68 70	360 1,000+100* 650	1,340 900 320	48 107	107	15.88 (5/8)	9.53 (3/8)	30	15	20	C	1,720	C
CS-F43DD2E5 CU-YL43GBE5	12.50 42,600	14.00 47,700	1 230-240 50	4.45 4.50	2.81 3.11	40 40	98 (10.0)	49/45 47/44	55 57	64/60 62/59	69 71	360 1,000+100* 650	1,340 900 320	48 107	107	15.88 (5/8)	9.53 (3/8)	30	15	20	C	2,225	D

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.
 ** Additional gas might be required.
 # Add 100mm for power supply line.

OUTDOOR UNITS



- Please read the Installation Manual carefully before installing the unit, and read the Operating Manual before using.
- Specifications are subject to change without notice for further improvement.
- The contents of this catalogue are effective as of February, 2007.
- Due to printing considerations, the actual colours may vary slightly from those shown.

ACB-EU-ST-07

Panasonic

ideas for life

Air Conditioners



COMMERCIAL AIR CONDITIONERS

Inverter Standard Series for offices and shops



INVERTER

Standard Series

Panasonic



New FS Inverter Standard Series Model Line-Up



Indoor Unit		2.5HP	3.0HP	4.0HP	5.0HP
Cassette		CS-F24DB4E5	CS-F28DB4E5	CS-F34DB4E5	CS-F43DB4E5
Hide-Away (Low Static Pressure Models)		CS-F24DD3E5	CS-F28DD3E5	CS-F34DD3E5	CS-F43DD3E5
Hide-Away (Middle Static Pressure Models)		CS-F24DD2E5	CS-F28DD2E5	CS-F34DD2E5	CS-F43DD2E5
Ceiling		CS-F24DTE5	CS-F28DTE5	CS-F34DTE5	CS-F43DTE5

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-RL513T (For Ceiling Type)



Indoor Unit Combination

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

□ : Outdoor Unit Capacity
□ : Indoor Unit Capacity

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

Outdoor Unit

2.5HP	3.0HP	4.0HP	5.0HP
CU-YL24GBE5	CU-YL28GBE5	CU-YL34GBE5	CU-YL43GBE5

Reduced Running Costs with DC Inverter

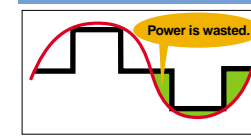
Energy-saving operation

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

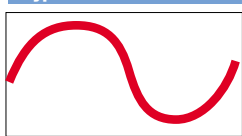
The Panasonic group's experiences and actual results in the development of inverters are realised in the control. This control of the inverter demonstrates the maximum compressor torque. The FS series quickly warms the room up to the set temperature and maintains a comfortable condition, whilst ensuring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

Our conventional inverter



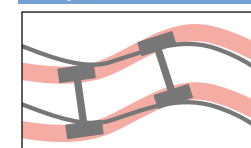
The current waveform deviates from the motor voltage waveform, so power is wasted.

Hyper Wave Inverter

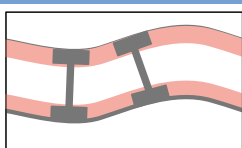


The current waveform closely matches the motor voltage waveform, so power consumption is reduced.

Compare this to a car rounding a corner.



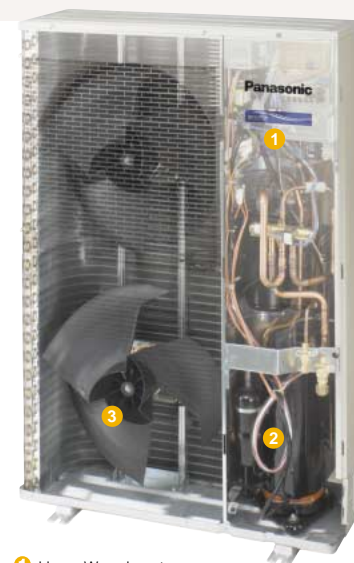
Power is wasted when the car swings off course.



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

High-Efficiency Compressor

Using a powerful neodymium 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

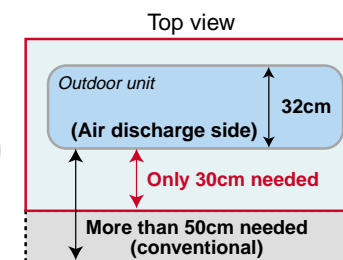
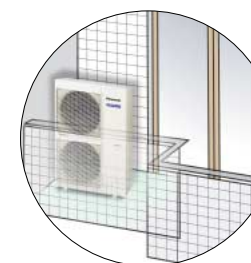
Easy Installation

Flexible Installation in Smaller Spaces

A variety of improvements has reduced installation time and space.

Space-Saving Outdoor Unit

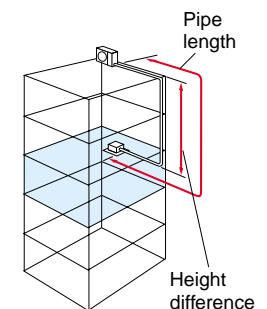
By improving the fan, we were able to make the outdoor unit small enough to fit in spaces too tight for conventional units.



Allowable Pipe Length

	2.5-3.0HP	4.0-5.0HP
Max. Length #	30 m	30 m
Max. Chargeless Length	20 m	20 m
Max. Height Difference	15 m	15 m

Additional gas is required.



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	-5°C* to 43°C (outdoor temperature)
Regular heating conditions	-15°C to 24°C (outdoor temperature)

* However, cooling operation at -15°C is possible in non-residential computer rooms, etc., where the temperature is not less than 21°C and humidity is not more than 45%.