

**Panasonic**

# **PREMIUM INVERTER DUCTED AIR CONDITIONING**



***INVERTER***

# PANASONIC LEADS THE WAY

## Ducted Air Conditioning Specialists

With more than 30 years of experience, exporting to more than 120 countries around the world, Panasonic is unquestionably one of the leaders in the air conditioning sector. The company is also a world leader in innovation as it has filed more than 91,539 patents to improve its customers' lives. In all, the company has produced more than 200 million compressors and its products, particularly residential air conditioners now hold the No.1 market share in Japan and other major countries in Asia. You can be assured of the extremely high quality of Panasonic's Air Conditioners.



# DUCTED AIR PROVIDES YEAR-ROUND COMFORT

We offer a range of ducted air conditioning solutions for homes and medium-sized buildings such as apartments, offices and restaurants. Consisting of an outdoor unit and a concealed indoor unit, a ducted system delivers air through ducting pipes (usually in the ceiling) into each room via vents on the floor, wall or ceiling. Panasonic Ducted Systems look very

discreet and have been designed with flexibility in mind, which is extremely helpful when designing a system for your home, and also makes installation much easier. A Panasonic Ducted Air Conditioner will provide years of comfort for you and your family, and it will add value to your home as ducted air conditioning is a highly desirable feature for home buyers.

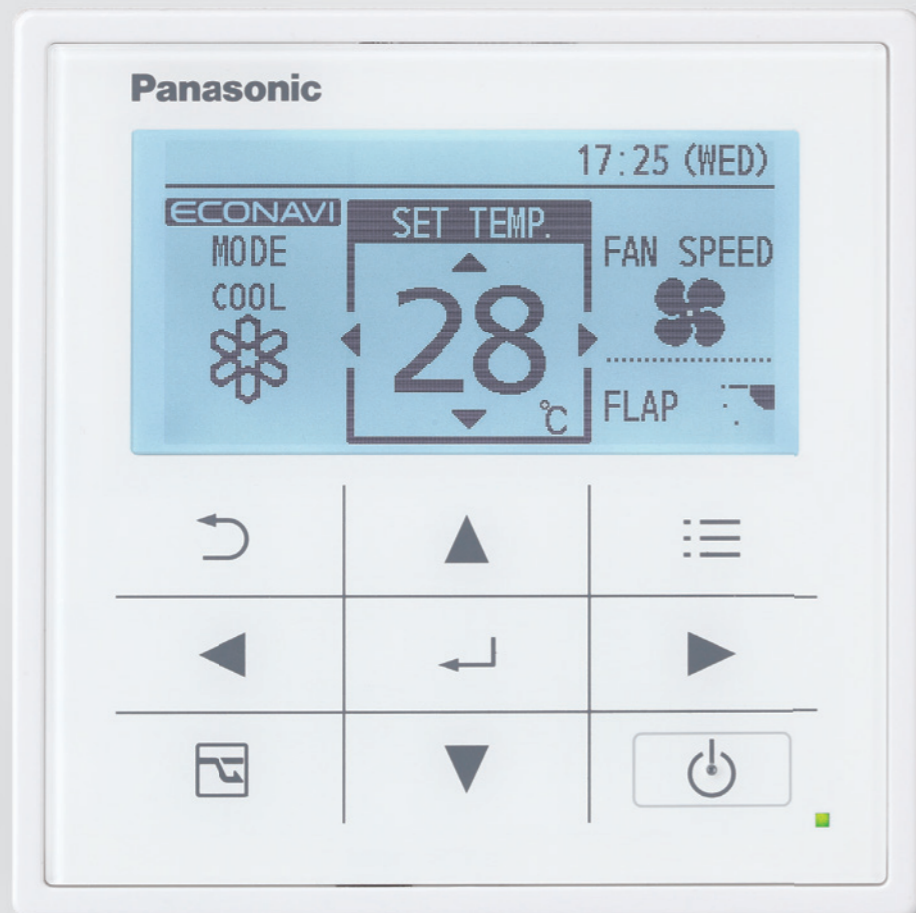


WARM IN WINTER 

 COOL IN SUMMER

# DELUXE WIRED REMOTE CONTROLLER

Easy-to-use, with multiple energy saving functions at your fingertips



## LARGE 3.5" FULL-DOT LCD WITH WHITE LED BACKLIGHT

Characters and icons are clearly displayed for perfect visibility. With the white LED backlight, you can now change the temperature during the night without even turning on the light.



## STYLISH, EASY-TO-USE TOUCH KEY DESIGN

The elegant, flat design features large touch keys in a simple layout enabling easy, intuitive operation.



# RELIABLE COMFORT COMES FROM RELIABLE TECHNOLOGY

## DISCREET COMFORT

A Panasonic Air Conditioner should be the hard-working hero you never notice. From noise measurements, to environmental performance and even operating ease, we repeatedly test our models to make sure they keep your home comfortable without ever intruding on your life.



## TESTED DURABILITY

We simulate continuous operation under the harshest of conditions, subject the outdoor units to wind and rain tests and then examine every mechanism to ensure we are delivering a rugged product you can depend on for many years.



## SHOCK RESISTANCE

We love our air conditioners but that doesn't mean we go easy on them. We simulate impacts, vibrations, drops and stacking issues the units might face in transportation and storage, so we know they will be ready for action when they reach your home.



# CLASS LEADING FEATURES

## Control, comfort & reassurance

### ENERGY SAVING TECHNOLOGIES

Panasonic's Premium Inverter technology creates a powerhouse energy-saving ducted air-conditioning system with the ability to lower both cooling capacity and power consumption when required. Panasonic's clever technologies benefit both the environment and your power bill, so your green intention won't prevent you from living a comfortable life.



### QUIET OPERATION

Panasonic Premium Inverter Ducted Systems are amongst the quietest in the world, so you can enjoy the comfort of running your air conditioner at night and still have a relaxing sleep. The outdoor unit is also very quiet which means you don't have to worry about keeping your neighbours up either.

### DESIGNED FOR THE NEW ZEALAND ENVIRONMENT

Our Premium Inverter Ducted Systems boast an outstanding operating temperature range. Cooling operation is possible even when it is a scorching 46°C outside, which is perfect for our hot summer days and the heating operation is designed to operate even when it's a freezing -20°C outside, so even the coldest parts of New Zealand are covered.



### COLD DRAFTS REDUCED DURING WINTER

Cold drafts during start-up are a common unwanted side effect of ducted air conditioning systems. During heating mode Panasonic Premium Inverter Ducted Air Conditioners employ clever sensor technology that allows airflow to enter the room when it has been warmed. This great feature reduces cold drafts, keeping you comfortable at all times.

### SUPERIOR TECHNOLOGY MAKES SUPERIOR SYSTEMS

- Demand Response Enabling Device (DRED) ready
- Panasonic Premium Inverter technology
- DC fan motor
- Incredibly quiet operation
- Compact indoor and outdoor design
- Easy interfacing for remote On/Off, control outputs, and third party control.



### YOU CAN COUNT ON PANASONIC

Panasonic Air Conditioners are manufactured to the highest quality standards to ensure years of reliable comfort. We even back our reliability by offering a full 5 year parts and labour warranty.

# SPECIFICATIONS



## PE SERIES INDOOR UNIT

Hidden in your ceiling



6.0kW – 16.0kW



18.0kW – 22.4kW

## PF SERIES INDOOR UNIT



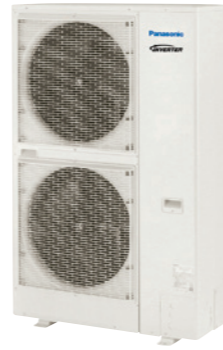
6.0kW - 7.1kW



10.0kW - 14.0kW

## OUTDOOR UNIT

Sits outside your home



6.0kW – 22.4kW  
(Design may differ slightly depending on capacity)

## OPTIONAL CONTROLLER

Variety of options, easy to use



**CZ-RTC4**  
**Wired Remote Controller**  
The wall control with its large LCD display gives you full operational access and can be easily customised to suit your unique requirements.



**CZ-RTC5A**  
**Deluxe Wired Remote Controller**  
This optional backlit LED large controller can be installed in your bedroom so you can change the temperature during the night without turning on the light.



**CZ-RWSK2 + CZ-RWSC3**  
**Wireless Remote Controller**  
This wireless remote controller gives you the convenience to operate the unit from anywhere in the room.

Capacity		6.0kW		7.1kW		10.0kW		12.5kW		14.0kW			
Model Name	Indoor Unit	S-60PE1R5A	S-60PF1R5A	S-71PE1R5A	S-71PF1R5A	S-100PE1R5A	S-100PF1R5A	S-125PE1R5A	S-125PF1R5A	S-140PE1R5A	S-140PF1R5A	S-140PE1R5A	S-140PF1R5A
	Outdoor Unit	U-60PE1R5A	U-60PE1R5A	U-71PE1R5A	U-71PE1R5A	U-100PE1R5A	U-100PE1R5A	U-125PE1R5A	U-125PE1R5A	U-140PE1R5A	U-140PE1R5A	U-140PE1R8A	U-140PE1R8A
Power source	Phase/Hz	1 Phase/ 50Hz		1 Phase/ 50Hz		1 Phase/ 50Hz		1 Phase/ 50Hz		1 Phase/ 50Hz		1 Phase/ 50Hz	
	V	230V   240V		230V   240V		230V   240V		230V   240V		400V   415V		400V   415V	
Cooling capacity : Heating capacity	kW	6.0 (2.5 - 7.1) 7.0 (2.0 - 8.0)	6.0 (2.5 - 7.1) 7.0 (2.0 - 8.0)	7.1 (2.5 - 8.0) 8.0 (2.0 - 9.0)	7.1 (2.5 - 8.0) 8.0 (2.0 - 9.0)	10.0 (3.3 - 12.5) 11.2 (4.1 - 14.0)	10.0 (3.3 - 12.5) 11.2 (4.1 - 14.0)	12.5 (3.3 - 14.0) 14.0 (4.1 - 16.0)	12.5 (3.3 - 14.0) 14.0 (4.1 - 16.0)	14.0 (3.3 - 15.5) 16.0 (4.1 - 18.0)	14.0 (3.3 - 15.5) 16.0 (4.1 - 18.0)	14.0 (3.3 - 15.5) 16.0 (4.1 - 18.0)	14.0 (3.3 - 15.5) 16.0 (4.1 - 18.0)
	BTU/h	20,500 (8,500 - 24,200) 23,900 (6,800 - 27,300)	20,500 (8,500 - 24,200) 23,900 (6,800 - 27,300)	24,200 (8,500 - 27,300) 27,300 (6,800 - 30,700)	24,200 (8,500 - 27,300) 27,300 (6,800 - 30,700)	34,100 (11,300 - 42,700) 38,200 (14,000 - 47,800)	34,100 (11,300 - 42,700) 38,200 (14,000 - 47,800)	42,700 (11,300 - 47,800) 47,800 (14,000 - 54,600)	42,700 (11,300 - 47,800) 47,800 (14,000 - 54,600)	47,800 (11,300 - 52,900) 54,600 (14,000 - 61,400)	47,800 (11,300 - 52,900) 54,600 (14,000 - 61,400)	47,800 (11,300 - 52,900) 54,600 (14,000 - 61,400)	47,800 (11,300 - 52,900) 54,600 (14,000 - 61,400)
EER : COP	W/W	3.24 : 3.41		3.90 : 3.87		3.23 : 3.48		3.84 : 3.85		3.36 : 3.52		4.10 : 4.31	
Total power input	Cooling : Heating kW	1.85 : 2.05		1.54 : 1.81		2.20 : 2.30		1.85 : 2.08		2.98 : 3.18		2.44 : 2.60	
<b>Indoor Unit</b>													
Current	Cooling : Heating A	0.85 : 0.85   0.86 : 0.86		0.89 : 0.89   0.87 : 0.87		1.24 : 1.24   1.25 : 1.25		0.89 : 0.89   0.87 : 0.87		1.72 : 1.72   1.74 : 1.74		1.30 : 1.34   1.27 : 1.29	
Dimensions	H x W x D mm	290x1,100 (+100)x700		290x1,000x700		360x1,100 (+100)x700		290x1,000x700		360x1,100 (+100)x700		290x1,400x700	
Net weight	kg	35		33		42		33		44		45	
Air volume	Cooling : Heating L/s	366 : 366		350 : 350		500 : 500		350 : 350		666 : 666		533 : 533	
External static pressure	Pa	70 (Max.100)		70 (10 - 150)		100 (Max.150)		70 (10 - 150)		100 (Max.150)		100 (10 - 150)	
Sound pressure level (H/M/L)	Cooling : Heating dB(A)	43 / 41 / 40 43 / 41 / 40		35 / 32 / 26 : 35 / 32 / 26		45 / 44 / 43 45 / 44 / 43		35 / 32 / 26 : 35 / 32 / 26		48 / 46 / 44 48 / 46 / 44		38 / 34 / 31 : 38 / 34 / 31	
Sound power level (H/M/L)	Cooling : Heating dB	60 / 58 / 57 60 / 58 / 57		58 / 55 / 49 : 58 / 55 / 49		62 / 61 / 60 62 / 61 / 60		58 / 55 / 49 : 58 / 55 / 49		70 / 68 / 66 70 / 68 / 66		61 / 57 / 54 : 61 / 57 / 54	
Number of fan speeds		3		3		3		3		3		3	
Drain pipe size	mm	VP-25		VP-25		VP-25		VP-25		VP-25		VP-25	
<b>Outdoor Unit</b>													
Current	Cooling : Heating A	7.85 : 8.80   7.65 : 8.60		7.40 : 7.10   8.40 : 8.10		9.10 : 9.30   8.80 : 9.00		8.60 : 9.50   8.30 : 9.20		11.8 : 12.7   11.40 : 12.3		10.60 : 11.20   10.30 : 10.70	
Dimensions	H x W x D mm	996 x 940 x 340		996 x 940 x 340		996 x 940 x 340		996 x 940 x 340		1,416 x 940 x 340		1,416 x 940 x 340	
Net weight	kg	68		68		69		69		98		98	
Air volume	Cooling : Heating L/s	1,000 : 1,000		1,000 : 1,000		1,000 : 1,000		1,000 : 1,000		1,833 : 1,583		1,833 : 1,583	
Sound pressure level (Silent mode)	Cooling : Heating dB(A)	48 (46) : 50 (48)		48 : 50		48 (46) : 50 (48)		48 : 50		52 (50) : 52 (50)		52 : 52	
Sound power level (Silent mode)	Cooling : Heating dB(A)	65 (63) : 67 (65)		65 : 67		65 (63) : 67 (65)		65 : 67		69 (67) : 69 (67)		70 (68) : 70 (68)	
Piping connections	Liquid/Gas m	Ø9.52 / Ø15.88		Ø9.52 / Ø15.88		Ø9.52 / Ø15.88		Ø9.52 / Ø15.88		Ø9.52 / Ø15.88		Ø9.52 / Ø15.88	
Pipe length	min. - max. m	5 - 50		5 - 50		5 - 50		5 - 50		5 - 75		5 - 75	
Elevation difference (OU located lower, OU locate	m	15, 30		15, 30		15, 30		15, 30		15, 30		15, 30	
Maximum chargeless length	m	30		30		30		30		30		30	
Refrigerant at shipping, Additional gas amount	g	R410A 2,000, 50 (g/m)		R410A 2,000, 50 (g/m)		R410A 2,350, 50 (g/m)		R410A 2,350, 50 (g/m)		R410A 3,400, 50 (g/m)		R410A 3,400, 50 (g/m)	
Operation ranges	Cooling : Heating °C	-15 to 46 : -20 to 24		-15 to 46 : -20 to 24		-15 to 46 : -20 to 24		-15 to 46 : -20 to 24		-15 to 46 : -20 to 24		-15 to 46 : -20 to 24	

# SPECIFICATIONS *continued*

## PE SERIES INDOOR UNIT

Hidden in your ceiling



6.0kW – 16.0kW



18.0kW – 22.4kW

## PF SERIES INDOOR UNIT



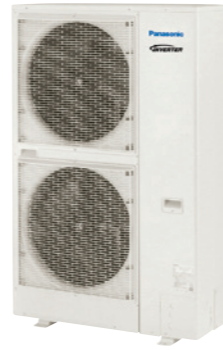
6.0kW – 7.1kW



10.0kW – 14.0kW

## OUTDOOR UNIT

Sits outside your home



6.0kW – 22.4kW  
(Design may differ slightly depending on capacity)

Capacity		16.0 kW	18.0 kW	20.0 kW	22.4 kW
Model Name	Indoor Unit	S-160PE1R5A	S-180PE2R5B	S-200PE2R5B	S-224PE2R5B
	Outdoor Unit	U-160PE2R8A	U-180PE2R8A	U-200PE2R8A	U-224PE2R8A
Power source	Phase/Hz	3 Phase/ 50Hz	3 Phase/ 50Hz	3 Phase/ 50Hz	3 Phase/ 50Hz
	V	400V   415V	400V   415V	400V   415V	400V   415V
Cooling capacity : Heating capacity	kW	16.0 (5.4 - 18.0) 18.0 (5.6 - 20.0)	18.0 (5.4 - 20.0) 20.0 (5.6 - 22.4)	20.0 (6.3 - 22.4) 22.4 (7.1 - 25.0)	22.4 (6.3 - 25.0) 25.0 (7.1 - 28.0)
	BTU/h	54,600 (18,400 - 61,400) 61,400 (19,100 - 68,200)	61,400 (18,400 - 68,200) 68,200 (19,100 - 76,400)	68,200 (21,500 - 76,400) 76,400 (24,200 - 85,300)	76,400 (21,500 - 85,300) 85,300 (24,200 - 95,500)
EER : COP	W/W	3.09 : 3.52	3.20 : 3.54	3.27 : 3.80	3.12 : 3.62
Total power input	Cooling : Heating kW	5.18 : 5.11	5.63 : 5.65	6.12 : 5.90	7.18 : 6.90
<b>Indoor Unit</b>					
Current	Cooling : Heating A	2.62 : 2.62   2.70 : 2.70	1.90 : 1.90   1.85 : 1.85	3.20 : 3.20   3.10 : 3.10	3.20 : 3.20   3.10 : 3.10
Dimensions	H x W x D mm	430x1,100 (+100)x700	479x1,453x1, 205	479x1,453x1, 205	479x1,453x1, 205
Net weight	kg	53	100	104	104
Air volume	Cooling : Heating L/s	1,000 : 1,000	933 : 933	1,200 : 1,200	1,200 : 1,200
External static pressure	Pa	100 (Max.150)	60 (Max.270)	72 (Max.270)	72 (Max.270)
Sound pressure level (H/M/L)	Cooling : Heating dB(A)	51 / 49 / 47 : 51 / 49 / 47	43 / 41 / 38 : 43 / 41 / 38	47 / 45 / 42 : 47 / 45 / 42	47 / 45 / 42 : 47 / 45 / 42
Sound power level (H/M/L)	Cooling : Heating dB	73 / 71 / 69 : 73 / 71 / 69	75 / 73 / 70 : 75 / 73 / 70	79 / 77 / 74 : 79 / 77 / 74	79 / 77 / 74 : 79 / 77 / 74
Number of fan speeds		3	3	3	3
Drain pipe size	mm	VP-25	VP-25	VP-25	VP-25
<b>Outdoor Unit</b>					
Current	Cooling : Heating A	7.40 : 7.20   7.00 : 6.90	8.45 : 8.50   8.15 : 8.15	8.70 : 8.45   8.40 : 8.15	10.30 : 9.95   9.90 : 9.60
Dimensions	H x W x D mm	1,500 x 980 x 370	1,500 x 980 x 370	1,500 x 980 x 370	1,500 x 980 x 370
Net weight	kg	127	127	138	138
Air volume	Cooling : Heating L/s	2,733 2,733	2,733 2,733	2,666 2,666	2,666 2,666
Sound pressure level (Silent mode)	Cooling : Heating dB(A)	59 (-) : 61 (-)	59 (-) : 61 (-)	60 (-) : 62 (-)	60 (-) : 62 (-)
Sound power level (Silent mode)	Cooling : Heating dB(A)	77 (-) : 79 (-)	77 (-) : 79 (-)	79 (-) : 81 (-)	79 (-) : 81 (-)
Piping connections	Liquid/Gas m	Ø9.52 / Ø19.05	Ø9.52 / Ø19.05	Ø12.70 / Ø19.05*	Ø12.70 / Ø19.05*
Pipe length	min. - max. m	5 - 50	5 - 50	5 - 50	5 - 50
Elevation difference (OU located lower, OU located higher)	m	30, 30	30, 30	30, 30	30, 30
Maximum chargeless length	m	30	30	30	30
Refrigerant at shipping, Additional gas amount	g	R410A 5,600, 50 (g/m)	R410A 5,600, 50 (g/m)	R410A 6,400, 80 (g/m)	R410A 6,400, 80 (g/m)
Operation ranges	Cooling : Heating °C	-15 to 46 : -20 to 24	-15 to 46 : -20 to 24	-15 to 46 : -20 to 24	-15 to 46 : -20 to 24

Tubing size may differ depending on pipe length. Please refer to technical documents.



Clever, made easy | **Panasonic**

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