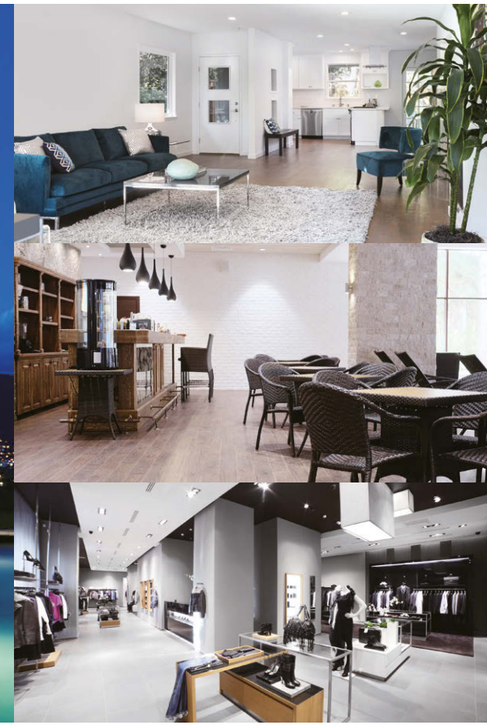
A CENTURY OF RELIABILITY

Panasonic

RESIDENTIAL & LIGHT COMMERCIAL AIR CONDITIONERS

2018 / 2019



Panasonic

Building Passion,
Building Solutions.
Panasonic Air Conditioning Systems

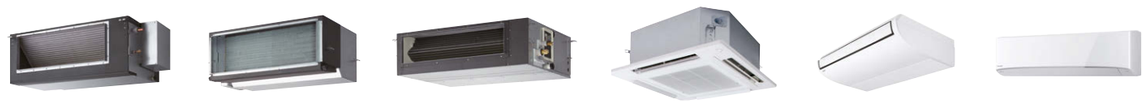
We face a time in which “quality air” differentiates business. It’s a time for Panasonic to fully display its strengths. Our ability to assemble and build superior systems isn’t just due to the rich resources we have as a comprehensive electronics manufacturer, but also to Panasonic’s 100 years of tradition, where each person thinks and acts on their own initiative while working in a team to reach further heights. We do not compromise. Each of our independent selves is a one stop solution. We face our customers’ challenges together with our customers and do all that we can to build effective systems. As a true partner for our customers, we strive to always be at the forefront of business.

- Please read the Installation Instructions carefully before installing the unit, and the Operating Instructions before using it.
- Specifications are subject to change without prior notice.
- The contents of this catalogue are accurate as of February 2018.
- Due to printing considerations, the actual colours may vary slightly from those shown.
- All graphics are provided merely for the purpose of illustrating a point.

⚠ Do not add or replace refrigerant other than the specified type. Manufacturer is not responsible for the damage and deterioration in safety due to usage of other refrigerant.

PAC INVERTER NZ FEB 2018

Authorised Dealer



nanoe™ TECHNOLOGY INVERTER DRED ready

QUALITY AIR FOR LIFE

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Panasonic Global Air Conditioner

Global Site : aircon.panasonic.com
PROClub : panasonicproclub.global

airconpanasonicglobal

Panasonic Air Conditioning Designed To Care For Your Projects

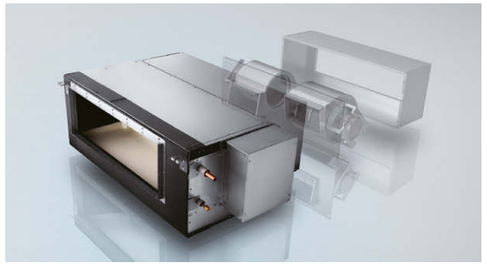
Since the sale of Panasonic's first room air conditioner in 1958, we have worked towards providing products and solutions that create comfortable and healthy living spaces for users. In addition to comfort, we have always championed in the consideration of installation ease, diversity of installation environments, and the needs of contractors and end users. Consequently, Panasonic has developed smart control management solutions allowing you to synergistically control and monitor the systems' energy consumptions, hence removing the restrictions of traditional systems.

CONTENTS

WHAT'S NEW

Splittable Ducted

P. 6 - 7



The new High Static Pressure design splits the unit into 3 components for flexible installation.

Outdoor Unit

P. 8 - 13

The new model debuts with R32 refrigerant. Its compact body allowing installation even in narrow spaces.

Product Line-up

For Medium Sized Project

Indoor Unit

Cooling Capacity: 6.0 kW | 7.1 kW | 10.0 kW | 12.5 kW | 14.0 kW | 16.0 kW | 18.0 kW | 20.0 kW | 22.4 kW

Ducted
High Static Pressure Model
Page 14-17 for 6.0kW -16.0kW
ECONAVI ready

6.0 kW	7.1 kW	10.0 kW	12.5 kW	14.0 kW	16.0 kW
S-60PE1R5B	S-71PE1R5B	S-100PE1R5B	S-125PE1R5B	S-140PE1R5B	S-160PE1R5A

Splittable Ducted
High Static Pressure Model
Page 18-19 for 18kW - 22.4kW

18.0 kW	20.0 kW	22.4 kW
S-180PE3R5	S-200PE3R5	S-224PE3R5

NEW

Ducted
Mid Static Pressure Model
Page 20-23
ECONAVI ready

6.0 kW	7.1 kW	10.0 kW	12.5 kW	14.0 kW
S-60PF1E5B	S-71PF1E5B	S-100PF1E5B	S-125PF1E5B	S-140PF1E5B

4-Way Cassette
* Panel is provided as an option (CZ-KPU3/CZ-KPU3A)
Page 24-29
nanoe X
ECONAVI ready

6.0 kW	7.1 kW	10.0 kW	12.5 kW	14.0 kW
S-60PU2E5B	S-71PU2E5B	S-100PU2E5B	S-125PU2E5B	S-140PU2E5B

Under Ceiling
Page 30-33
ECONAVI ready

6.0 kW	7.1 kW	10.0 kW	12.5 kW	14.0 kW
S-60PT2E5B	S-71PT2E5B	S-100PT2E5B	S-125PT2E5B	S-140PT2E5B

Wall Mounted
Page 34-35
ECONAVI ready

7.1 kW	10.0 kW
NEW	S-100PK2E5B

Outdoor Unit

R410A Model
Page 8-13
DRED ready

6.0 kW	7.1 kW	10.0 kW	12.5 kW	14.0 kW	16.0 kW	18.0 kW	20.0 kW	22.4 kW
U-60PE1R5A	U-71PE1R5A	U-100PE1R5A U-100PE1R8A*	U-125PE1R5A U-125PE1R8A*	U-140PE1R5A U-140PE1R8A*	U-160PE2R8A*	U-180PE2R8A*	U-200PE2R8A*	U-224PE2R8A*

* 3 phase

R32 Model
Page 8-13
R32 REFRIGERANT
DRED ready

6.0 kW	7.1 kW	10.0 kW	12.5 kW	14.0 kW
U-60PZ2R5	U-71PZ2R5	U-100PZ2R5 U-100PZ2R8*	U-125PZ2R5 U-125PZ2R8*	U-140PZ2R5 U-140PZ2R8*

NEW

* 3 phase

For Small Sized Project

Indoor Unit

Cooling Capacity: 2.5/2.6 kW | 3.4/3.7 kW | 4.8/5.0 kW

Ultra Slim Ducted
Page 40-45

2.5/2.6 kW	3.4/3.7 kW	4.8/5.0 kW
CS-E9SD3RW	CS-E12SD3RW	CS-E18SD3RW

Bulkhead Ducted
Page 40-45

2.5/2.6 kW	3.4/3.7 kW	4.8/5.0 kW
CS-E9QD3RW	CS-E12QD3RW	CS-E18QD3RW

Mini Cassette
Page 40-45

2.5/2.6 kW	3.4/3.7 kW	4.8/5.0 kW
CS-E9SB4RW	CS-E12QB4RW	CS-E18QB4RW

Outdoor Unit

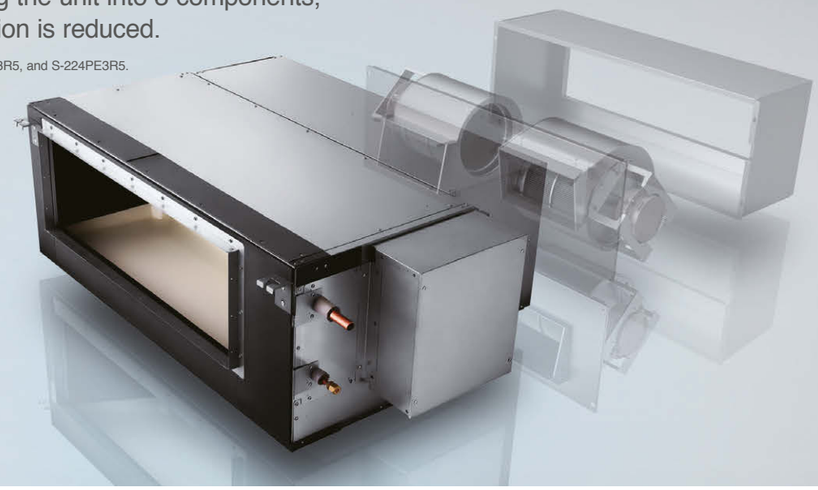
R410A Model
DRED ready

2.5/2.6 kW	3.4/3.7 kW	4.8/5.0 kW
CU-E9SD3R CU-E9QD3R CU-E9SB4R	CU-E12SD3R CU-E12QD3R CU-E12QB4R	CU-E18SD3R CU-E18QD3R CU-E18QB4R

Splittable Ducted

Create comfort faster. The newly designed high static pressure ducted model is improved for a more flexible installation. By dividing the unit into 3 components, the burden of installation is reduced.

* In the case of the S-180PE3R5, S-200PE3R5, and S-224PE3R5.



Powerful Air for Quick Comfort

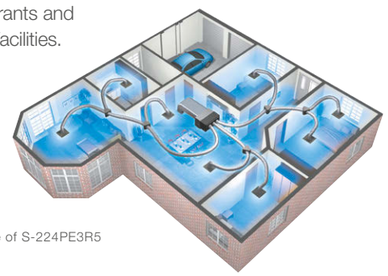
Top Grade of Airflow Volume

Maximum airflow is up to 1400 l/s which is 16% improved compared to previous model.
This results to quicker room temperature control.

* Comparison between S-224PE3R5 and S-224PE2R5B

Max.200 Pa Static Pressure Setting

A maximum static pressure setting of a high 200 Pa* enables the use of long ducts for installation in a wide range of spaces. Ideal for large-scale offices, restaurants and other facilities.



* In case of S-224PE3R5

3-step Static Pressure Set Up

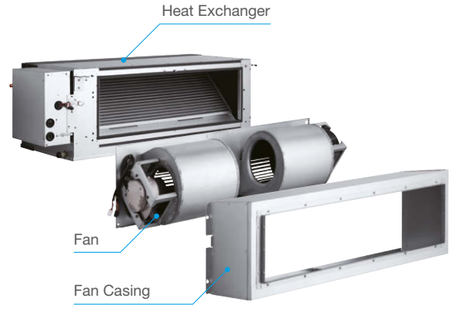
You can select between the three Static Pressure modes of 200 Pa / 130 Pa / 75 Pa for extra installation flexibility.

* In case of S-224PE3R5

Easy Installation Design

Fits the Roof-space and Your Needs

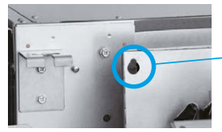
The newly designed high static pressure ducted consists of 3 components, the heat exchanger, the fan and the fan casing. For easy installation, the unit has been designed to be lifted into the roof via return air grille separated and easily reassembled when in position.



New Ducted Model Key Factors

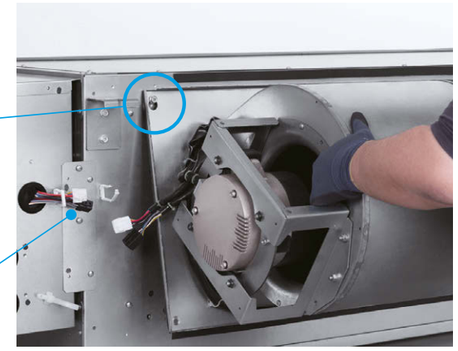
Bell Shaped Keyhole for Weight Support

Part of the keyhole is newly designed with a bell shape to reduce the burden of installation. It also enables temporary attachment.



2 Wire Connectors for Easy Installation

Decreasing the number of wire connectors into 2 makes installation much easier and faster.



12 Bolts & Screws for Easy Assembly

Only 12 screws and bolts need to be attached allowing for a shorter installation time.

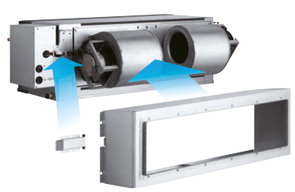
Easy Assembly Steps

Assembly takes three easy steps, even in limited spaces.

1 Install the fan to the heat exchanger and tighten the screws and bolts.

2 Assemble the connectors.

3 Install the chassis and tighten the screws and bolts.



Outdoor Unit

The Panasonic outdoor unit is designed to satisfy everybody with its powerful performance. Moreover, the new R32 model has a 1-fan body and fits into tighter spaces.

Compact Design

Whilst maintaining its strong power, new R32 outdoor units get smaller. This enables them to fit into tighter spaces. Thus you can install these units in a vast variety of area.

Industry-leading Small Body with All 1-fan Models*

R32

Panasonic's ingeniously designed R32 outdoor units are compact in size to fit into any space and layout. This makes them easy to install even in the tightest of places.

*Up to 14.0kW

* Comparison between U-60PZ2R5 and U60-PE1R5A

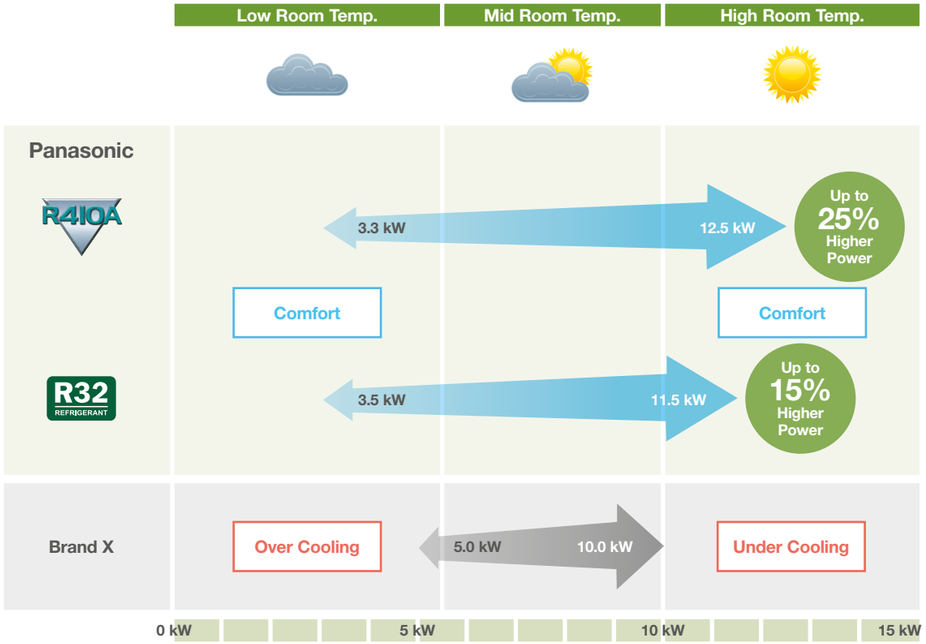
* Comparison between U-100PZ2R5 and U100-PE1R5A

Precise Temperature Control

Constant Comfort Air Conditioning

R32 R410A

Another advantage of Panasonic Premium Inverter technology includes its ability to ensure precise temperature control and offer a wider power output range to perform in even the most extreme conditions in Australia, ensuring constant comfort.



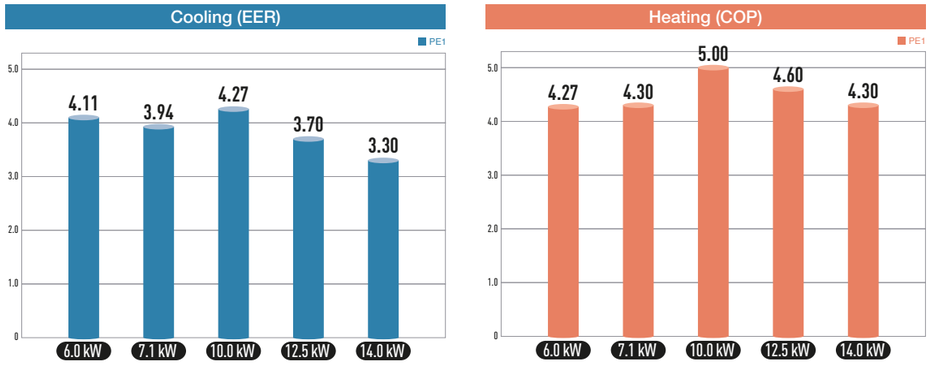
Graph shows each models' 10.0 kW Inverter High Static Pressure Ducted systems performance range during cooling.

Energy Saving Technology

High EER and COP Value

R410A

The use of energy saving design for the structure of fans, fan motors, compressors and heat exchangers resulted in high EER and COP value which ranked as one the top class in the industry.



* The graph shows 4-way cassette R410A models' values

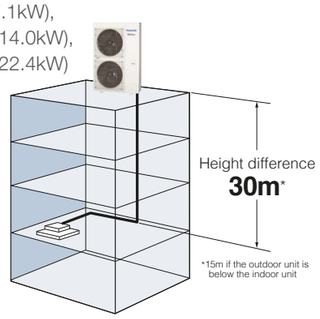
Outdoor Unit

Other Advanced Technology

Increased Piping Length for Greater Design Flexibility

R410A

Adaptable to various building types and sizes
Max. piping length :
50m (6.0kW, 7.1kW),
75m (10.0kW-14.0kW),
50m (16.0kW-22.4kW)



Product Quality and Safety

R32 R410A

All Panasonic air conditioners undergo strict quality and safety tests before sale. This rigorous process includes obtaining all necessary Safety Approvals, to ensure that all air conditioners we sell are not only built to the highest market standards, but are also completely safe.

Quiet Mode

R32 R410A

Quiet mode reduces outdoor operating sound by 2dB. External input signal is also available.

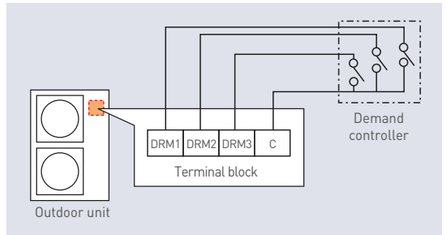
* 14.0kW or smaller capacity unit

Demand Response Compliant

R32 R410A

Panasonic air conditioners are equipped with a Demand Response Enabling Device (DRED) which complies to both AS 4755 and AS 3823. Panasonic continues to design and develop products that are tailored to local needs and requirements.

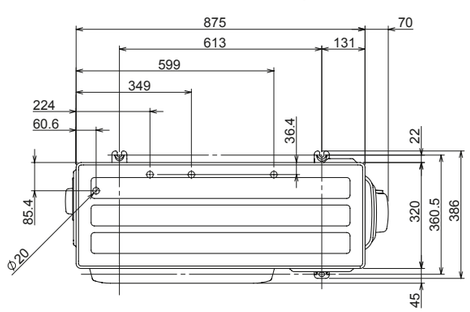
The Equipment Energy Efficiency (E3) program has been supporting the development of DRED standards for air-conditioners which should comply with AS 4755. The functionality will be required for all installations in the very near future

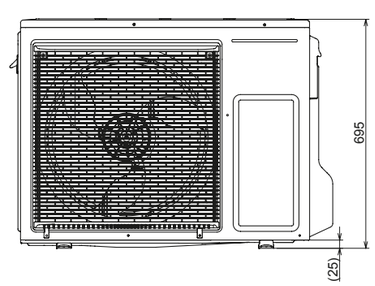


Demand control terminal is available to control 0-50-75-100% of capacities.

Outdoor Unit Dimensions

R32 Model Dimensions (6.0kW – 7.1kW)



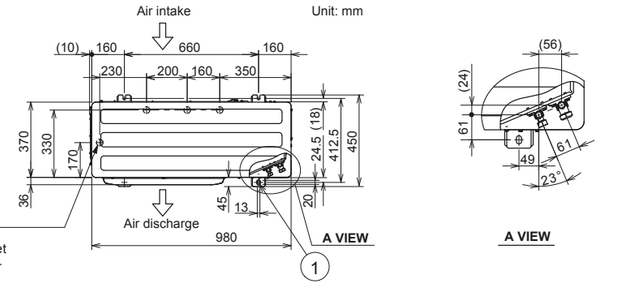


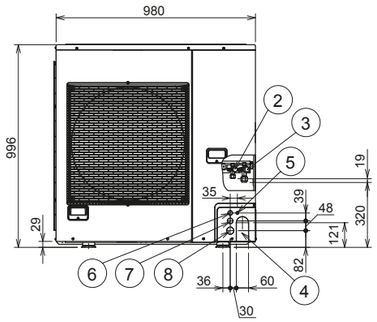
R32 Model Dimensions (10.0kW – 14.0kW)

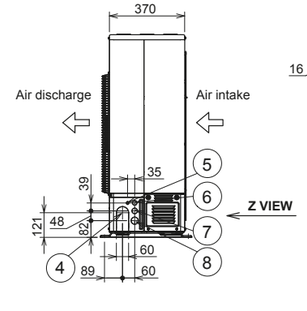
1) Mounting hole (4-R6.5), anchor bolt : M10
2) Refrigerant tubing (liquid tube), flared connection (Ø9.52)
3) Refrigerant tubing (gas tube), flared connection (Ø15.88)
4) Refrigerant tubing port
5) Electrical wiring port (ø13)
6) Electrical wiring port (ø22)
7) Electrical wiring port (ø27)
8) Electrical wiring port (ø35)

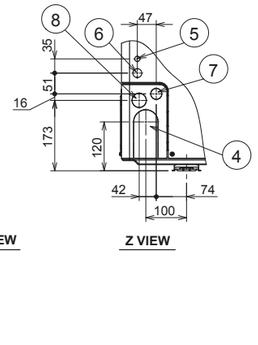
4×Ø32 holes (holes for drain)

When using a drain pipe, install the drain socket (field supply) on to the drain port.Seal the other drain port with the rubber cap.

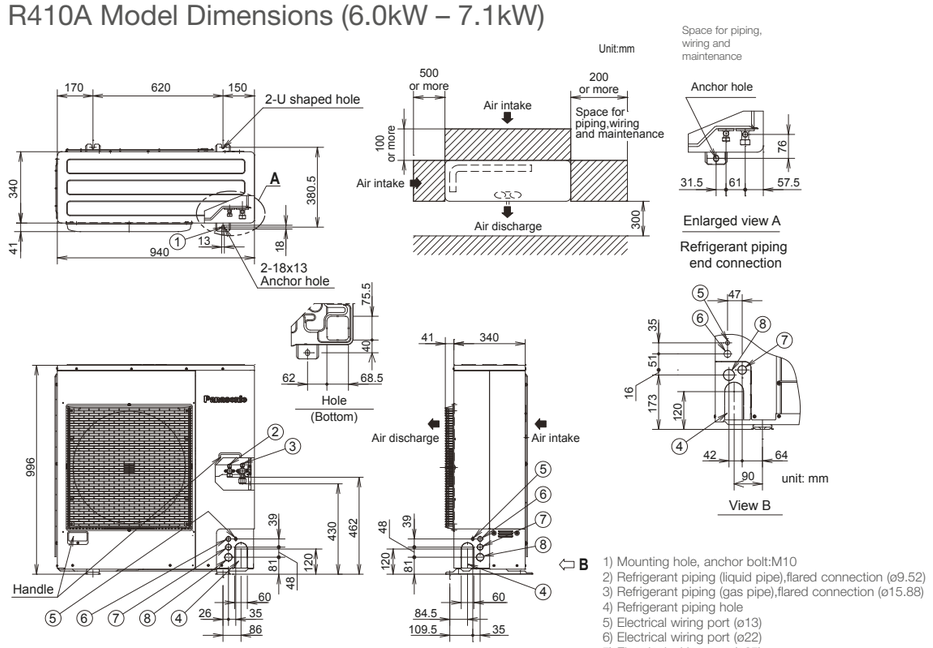








R410A Model Dimensions (6.0kW – 7.1kW)

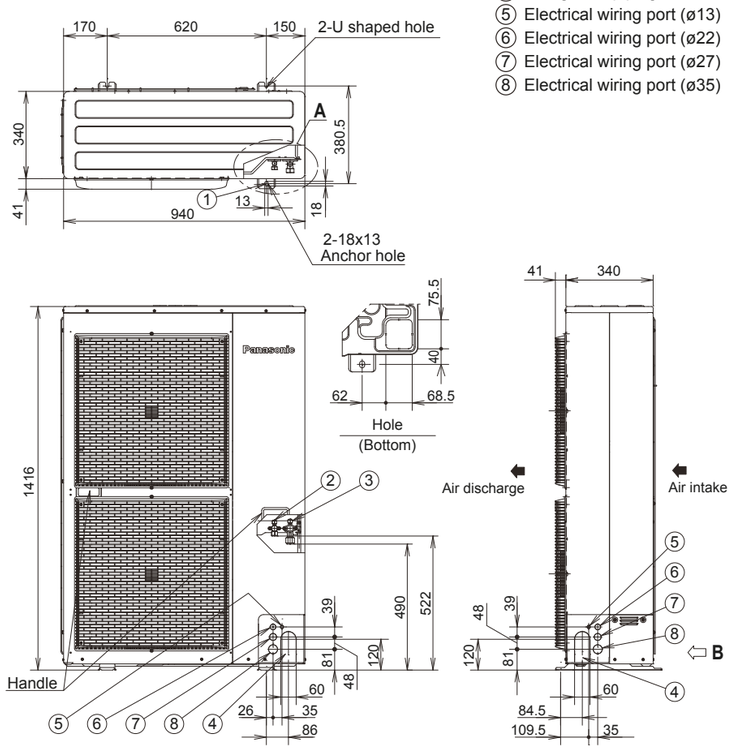


1) Mounting hole, anchor bolt:M10
2) Refrigerant piping (liquid pipe),flared connection (ø9.52)
3) Refrigerant piping (gas pipe),flared connection (ø15.88)
4) Refrigerant piping hole
5) Electrical wiring port (ø13)
6) Electrical wiring port (ø22)
7) Electrical wiring port (ø27)
8) Electrical wiring port (ø35)

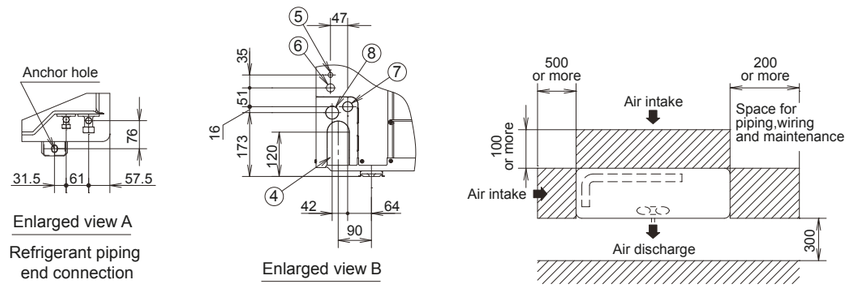
Outdoor Unit

R410A Model Dimensions (10.0kW – 14.0kW)

① Mounting hole, anchor bolt:M10
② Refrigerant piping(liquid pipe),flared connection (ø9.52)
③ Refrigerant piping(gas pipe),flared connection (ø15.88)
④ Refrigerant piping hole
⑤ Electrical wiring port (ø13)
⑥ Electrical wiring port (ø22)
⑦ Electrical wiring port (ø27)
⑧ Electrical wiring port (ø35)



unit: mm

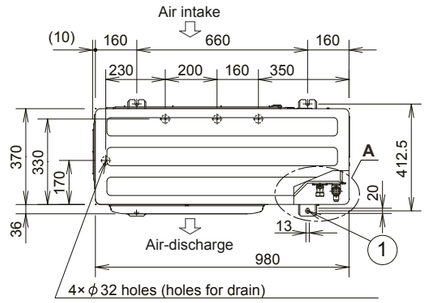


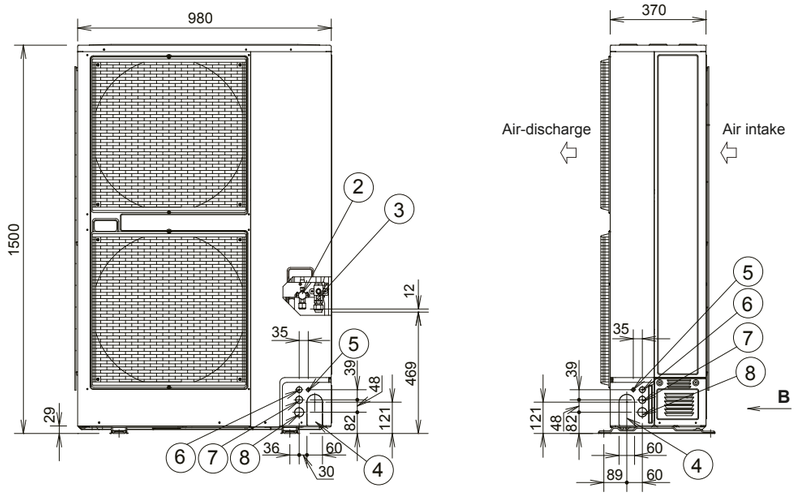
R410A Model Dimensions (16.0kW – 22.4kW)

① Mounting hole (4-R6.5), anchor bolt : M10
② Refrigerant tubing (liquid tube), flared connection (ø12.7)
③ Refrigerant tubing (gas tube), flared connection (ø19.05)*1
④ Refrigerant tubing port
⑤ Electrical wiring port (ø13)
⑥ Electrical wiring port (ø22)
⑦ Electrical wiring port (ø27)
⑧ Electrical wiring port (ø35)

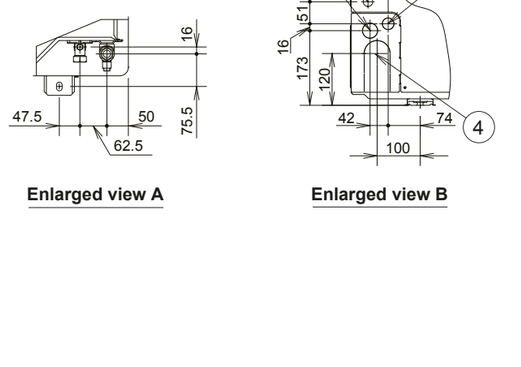
Specification for pipe connecting indoor unit to outdoor unit.

*1 (Gas piping connection) While the main gas side pipe is ø25.4, since connecting the outdoor unit's 3-way valve requires a ø19.05 flare, please be sure to use standard accessories joint piping B or A for connection (brazing), and connect as follows.





unit: mm



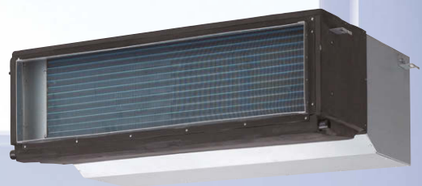
Indoor Unit

High Static Pressure

Ducted

High static and large airflow ducted for exceptional installation flexibility.

ECONAVI
ECONAVI ready



S-60PE1R5B
S-71PE1R5B
S-100PE1R5B

S-125PE1R5B
S-140PE1R5B
S-160PE1R5A

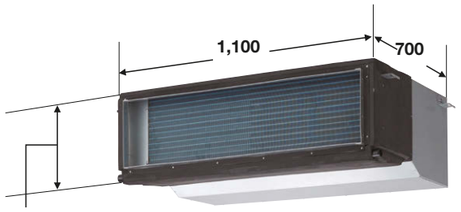
ECONAVI
ECONAVI ready

CZ-CENSC1 CZ-RTC5B CZ-RTC4

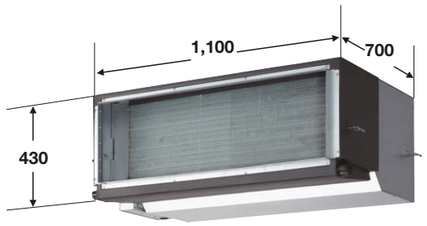
Self-diagnosing Function
Automatic Fan Operation
Mild dry
Automatic Restart Function
DC motor

Compact Body Size

Hidden in the ceiling, ideal when interior decor is an important consideration such as in residences with many rooms and light commercial buildings.



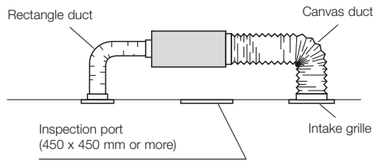
60PE, 71PE, 100PE



125PE, 140PE, 160PE

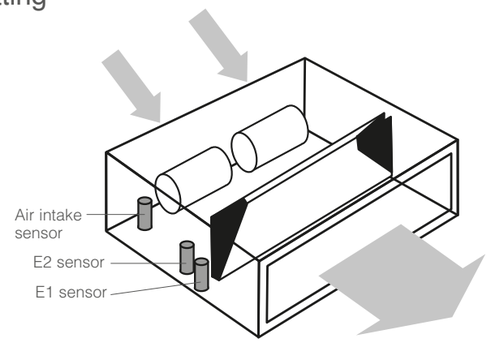
System Example

An inspection port (450 mm x 450 mm or more) is required at the control-box side of the indoor unit body.



Cold Drafts Reduced During Heating Operation

- Accurate temperature measurement by E1/E2 sensor to reduce cold drafts during heating operation.



Indoor Unit: **High Static Pressure** Ducted

Specifications R410A

Capacity			6.0kW	7.1kW	10.0kW		12.5kW		14.0kW		16.0kW
Model Name	Indoor Unit		S-60PE1R5B	S-71PE1R5B	S-100PE1R5B	S-100PE1R5B	S-125PE1R5B	S-125PE1R5B	S-140PE1R5B	S-140PE1R5B	S-160PE1R5A
	Outdoor Unit		U-60PE1R5A	U-71PE1R5A	U-100PE1R5A	U-100PE1R8A	U-125PE1R5A	U-125PE1R8A	U-140PE1R5A	U-140PE1R8A	U-160PE2R8A
Cooling capacity : Heating capacity		kW	6.0 (2.5 - 7.1) 7.0 (2.0 - 8.0)	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)	16.0 (5.4 - 18.0) 18.0 (5.6 - 20.0)
		BTU/h	20,500 (8,500 - 24,200) 23,900 (6,800 - 27,300)	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)	54600 (18400 - 61400) 61400 (19100 - 68200)
EER : COP		W/W	3.24 : 3.41	3.23 : 3.48	3.36 : 3.52	3.36 : 3.52	3.21 : 3.37	3.21 : 3.37	3.15 : 3.52	3.15 : 3.52	3.09 : 3.52
Total power input	Cooling : Heating	kW	1.85 : 2.05	2.20 : 2.30	2.98 : 3.18	2.98 : 3.18	3.90 : 4.16	3.90 : 4.16	4.45 : 4.55	4.45 : 4.55	5.18 : 5.11
Indoor Unit											
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz
		V	230V | 240V	230V | 240V	230V | 240V	230V | 240V	230V | 240V	230V | 240V	230V | 240V	230V | 240V	230V | 240V
Current	Cooling : Heating	A	0.85 : 0.85 | 0.86 : 0.86	1.24 : 1.24 | 1.25 : 1.25	1.72 : 1.72 | 1.74 : 1.74	1.72 : 1.72 | 1.74 : 1.74	1.82 : 1.82 | 1.84 : 1.84	1.82 : 1.82 | 1.84 : 1.84	2.62 : 2.62 | 2.70 : 2.70	2.62 : 2.62 | 2.70 : 2.70	2.62 : 2.62 | 2.70 : 2.70
Dimensions	H × W × D	mm	290×1,100 (+100)×700	360×1,100 (+100)×700	360×1,100 (+100)×700	360×1,100 (+100)×700	430×1,100 (+100)×700	430×1,100 (+100)×700	430×1,100 (+100)×700	430×1,100 (+100)×700	430×1,100(+100) ×700
Net weight		kg	35	42	44	44	48	48	53	53	53
Air volume	Cooling : Heating	L/s	366 : 366	500 : 500	666 : 666	666 : 666	833 : 833	833 : 833	1,000 : 1,000	1,000 : 1,000	1,000 : 1,000
External static pressure		Pa	70 (10 - 100)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	43 / 41 / 40 : 43 / 41 / 40	45 / 44 / 43 : 45 / 44 / 43	48 / 46 / 44 : 48 / 46 / 44	48 / 46 / 44 : 48 / 46 / 44	49 / 47 / 45 : 49 / 47 / 45	49 / 47 / 45 : 49 / 47 / 45	51 / 49 / 47 : 51 / 49 / 47	51 / 49 / 47 : 51 / 49 / 47	51 / 49/ 47 : 51 / 49/ 47
Sound power level (H/M/L)	Cooling : Heating	dB(A)	60 / 58 / 57 : 60 / 58 / 57	62 / 61 / 60 : 62 / 61 / 60	70 / 68 / 66 : 70 / 68 / 66	70 / 68 / 66 : 70 / 68 / 66	71 / 69 / 67 : 71 / 69 / 67	71 / 69 / 67 : 71 / 69 / 67	73 / 71 / 69 : 73 / 71 / 69	73 / 71 / 69 : 73 / 71 / 69	73 / 71 /69 : 73 / 71 /69
Number of fan speeds			3	3	3	3	3	3	3	3	3
Drain pipe size		mm	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25
Outdoor Unit											
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	3 Phase/ 50Hz
		V	230V | 240V	230V | 240V	230V | 240V	400V | 415V	230V | 240V	400V | 415V	230V | 240V	400V | 415V	400V | 415V
Current	Cooling : Heating	A	7.85 : 8.80 | 7.65 : 8.60	9.10 : 9.30 | 8.80 : 9.00	11.8 : 12.7 | 11.40 : 12.3	3.95 : 4.25 | 3.80 : 4.10	16.0 : 17.2 | 15.4 : 16.6	5.30 : 5.70 | 5.10 : 5.50	17.8 : 18.1 | 17.2 : 17.5	5.80 : 5.95 | 5.55 : 5.70	7.40 : 7.20 | 7.00 : 6.90
Dimensions	H × W × D	mm	996 × 940 × 340	996 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,500 × 980 × 370
Net weight		kg	68	69	98	98	98	98	98	98	127
Air volume	Cooling : Heating	L/s	1,000 : 1,000	1,000 : 1,000	1,833 : 1,583	1,833 : 1,583	2,166 : 1,833	2,166 : 1,833	2,250 : 2,000	2,250 : 2,000	2,733
Sound pressure level (Silent mode)	Cooling : Heating	dB(A)	48 (46) : 50 (48)	48 (46) : 50 (48)	52 (50) : 52 (50)	52 (50) : 52 (50)	53 (51) : 53 (51)	53 (51) : 53 (51)	54 (52) : 55 (53)	54 (52) : 55 (53)	59 (57) : 61 (59)
Sound power level (Silent mode)	Cooling : Heating	dB(A)	65 (63) : 67 (65)	65 (63) : 67 (65)	69 (67) : 69 (67)	69 (67) : 69 (67)	70 (68) : 70 (68)	70 (68) : 70 (68)	71 (69) : 71 (69)	71 (69) : 71 (69)	77 (75) : 79 (77)
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	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø19.05
Pipe length	min. - max.	m	5 - 50	5 - 50	5 - 75	5 - 75	5 - 75	5 - 75	5 - 75	5 - 75	5 - 50
Elevation difference (OU located lower, OU located higher)		m	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	30,30
Maximum chargeless length		m	30	30	30	30	30	30	30	30	30
Refrigerant at shipping, Additional gas amount		g	R410A 2,000, 50 (g/m)	R410A 2,350, 50 (g/m)	R410A 3,400, 50 (g/m)	R410A 3,400, 50 (g/m)	R410A 3,400, 50 (g/m)	R410A 3,400, 50 (g/m)	R410A 3,400, 50 (g/m)	R410A 3,400, 50 (g/m)	R410A 5,600, 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	-15 to 46 : -20 to 24	-15 to 46 : -20 to 24	-15 to 46 : -20 to 24

Specifications R32 REFRIGERANT

Capacity			6.0kW	7.1kW	10.0kW		12.5kW		14.0kW	
Model Name	Indoor Unit		S-60PE1R5B	S-71PE1R5B	S-100PE1R5B	S-100PE1R5B	S-125PE1R5B	S-125PE1R5B	S-140PE1R5B	S-140PE1R5B
	Outdoor Unit		U-60PZ2R5	U-71PZ2R5	U-100PZ2R5	U-100PZ2R8	U-125PZ2R5	U-125PZ2R8	U-140PZ2R5	U-140PZ2R8
Cooling capacity : Heating capacity		kW	6.0 (2.0 - 7.1) 6.0 (1.8 - 7.6)	7.1 (2.0 - 8.0) 7.1 (1.8 - 8.6)	10.0 (3.0 - 11.5) 10.0 (3.0 - 14.0)	10.0 (3.0 - 11.5) 10.0 (3.0 - 14.0)	12.5 (3.2 - 13.5) 12.5 (3.3 - 15.0)	12.5 (3.2 - 13.5) 12.5 (3.3 - 15.0)	14.0 (3.3 - 15.0) 14.0 (3.4 - 16.0)	14.0 (3.3 - 15.0) 14.0 (3.4 - 16.0)
		BTU/h	20,500 (6,800 - 24,200) 20,500 (6,100 - 25,900)	24,200 (6,800 - 27,300) 24,200 (6,100 - 29,300)	34,100 (10,200 - 39,200) 34,100 (10,200 - 47,800)	34,100 (10,200 - 39,200) 34,100 (10,200 - 47,800)	42,700 (10,900 - 46,100) 42,700 (11,300 - 51,200)	42,700 (10,900 - 46,100) 42,700 (11,300 - 51,200)	47,800 (11,300 - 51,200) 47,800 (11,600 - 54,600)	47,800 (11,300 - 51,200) 47,800 (11,600 - 54,600)
EER : COP		W/W	3.23 : 3.92 | 3.23 : 3.92	3.18 : 4.06 | 3.18 : 4.06	3.33 : 3.89 | 3.44 : 3.89	3.33 : 3.89 | 3.44 : 3.89	3.30 : 4.00 | 3.30 : 4.00	3.30 : 4.00 | 3.30 : 4.00	3.11 : 3.66 | 3.11 : 3.66	3.11 : 3.66 | 3.11 : 3.66
Total power input	Cooling : Heating	kW	1.86 : 1.53	2.23 : 1.75	3.00 : 2.57	3.00 : 2.57	3.79 : 3.125	3.79 : 3.125	4.50 : 3.825	4.50 : 3.825
Indoor Unit										
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz
		V	230V | 240V	230V | 240V	230V | 240V	230V | 240V	230V | 240V	230V | 240V	230V | 240V	230V | 240V
Current	Cooling : Heating	A	0.85 : 0.85 | 0.86 : 0.86	1.24 : 1.24 | 1.25 : 1.25	1.72 : 1.72 | 1.74 : 1.74	1.72 : 1.72 | 1.74 : 1.74	1.82 : 1.82 | 1.84 : 1.84	1.82 : 1.82 | 1.84 : 1.84	2.62 : 2.62 | 2.70 : 2.70	2.62 : 2.62 | 2.70 : 2.70
Dimensions	H × W × D	mm	290×1,100 (+100)×700	360×1,100 (+100)×700	360×1,100(+100)×700	360×1,100(+100)×700	430×1,100(+100)×700	430×1,100(+100)×700	430×1,100(+100)×700	430×1,100(+100)×700
Net weight		kg	35	42	44	44	48	48	53	53
Air volume	Cooling : Heating	L/s	366 : 366	500 : 500	666 : 666	666 : 666	833 : 833	833 : 833	1,000 : 1,000	1,000 : 1,000
External static pressure		Pa	70 (10 - 100)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	43 / 41 / 40 : 43 / 41 / 40	45 / 44 / 43 : 45 / 44 / 43	48 / 46 / 44 : 48 / 46 / 44	48 / 46 / 44 : 48 / 46 / 44	49 / 47 / 45 : 49 / 47 / 45	49 / 47 / 45 : 49 / 47 / 45	51 / 49 / 47 : 51 / 49 / 47	51 / 49 / 47 : 51 / 49 / 47
Sound power level (H/M/L)	Cooling : Heating	dB(A)	60 / 58 / 57 : 60 / 58 / 57	62 / 61 / 60 : 62 / 61 / 60	70 / 68 / 66 : 70 / 68 / 66	70 / 68 / 66 : 70 / 68 / 66	71 / 69 / 67 : 71 / 69 / 67	71 / 69 / 67 : 71 / 69 / 67	73 / 71 / 69 : 73 / 71 / 69	73 / 71 / 69 : 73 / 71 / 69
Number of fan speeds			3	3	3	3	3	3	3	3
Drain pipe size		mm	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25
Outdoor Unit										
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz
		V	230V | 240V	230V | 240V	230V | 240V	400V | 415V	230V | 240V	400V | 415V	230V | 240V	400V | 415V
Current	Cooling : Heating	A	8.05 : 6.45 | 7.70 : 6.15	9.35 : 7.15 | 8.90 : 6.75	11.5 : 9.95 | 11.0 : 9.50	3.90 : 3.40 | 3.75 : 3.24	15.6 : 12.6 | 14.9 : 12.0	5.20 : 4.15 | 4.95 : 4.00	18.2 : 15.0 | 17.2 : 14.1	6.05 : 4.95 | 5.75 : 4.70
Dimensions	H × W × D	mm	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	44	44	90	90	94	94	94	94
Air volume	Cooling : Heating	L/s	750 : 750	867 : 750	1,285 : 1,169	1,285 : 1,169	1,436 : 1,302	1,436 : 1,302	1,486 : 1,386	1,486 : 1,386
Sound pressure level (Silent mode)	Cooling : Heating	dB(A)	46 (44) : 48 (46)	49 (47) : 49 (47)	52 (50) : 52 (50)	52 (50) : 52 (50)	55 (53) : 55 (53)	55 (53) : 55 (53)	56 (54) : 56 (54)	56 (54) : 56 (54)
Sound power level (Silent mode)	Cooling : Heating	dB(A)	65 (63) : 66 (64)	67 (65) : 67 (65)	68 (66) : 67 (65)	68 (66) : 67 (65)	70 (68) : 70 (68)	70 (68) : 70 (68)	71 (69) : 71 (69)	71 (69) : 71 (69)
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	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
Pipe length	min. - max.	m	3 - 40	3 - 40	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50
Elevation difference (OU located lower, OU located higher)		m	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30
Maximum chargeless length		m	30	30	30	30	30	30	30	30
Refrigerant at shipping, Additional gas amount		g	R32, 1,450, 35 (g/m)	R32, 1,450, 35 (g/m)	R32, 2,600, 45 (g/m)	R32, 2,600, 45 (g/m)	R32, 2,980, 45 (g/m)	R32, 2,980, 45 (g/m)	R32, 2,980, 45 (g/m)	R32, 2,980, 45 (g/m)
Operation ranges	Cooling : Heating	°C	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24

Indoor Unit

High Static Pressure

Splittable Ducted

High static and large airflow ducted for exceptional installation flexibility.

Self-diagnosing Function | Automatic Fan Operation | Mild dry | Automatic Restart Function | DC motor

NEW

S-180PE3R5
S-200PE3R5
S-224PE3R5

CZ-RTC5B

CZ-RTC4

Technical focus

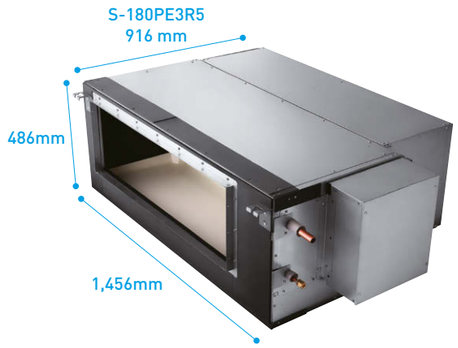
- Easy installation with splittable chassis design
- Max. 200Pa static pressure setting*
- Design flexibility thanks to high static pressure and large air volume
- DC motor equipped
- Low power input
- Accurate temperature control to reduce cold drafts during operation
- Configurable air temperature control

* In case of S-224PE3R5

Easy Installation with Light Components

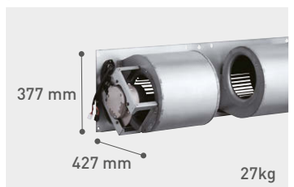
Compared to conventional models, this unit weight is approximately 10%* lighter and it can easily be split into 3 components, the heaviest of which measures at 48kg. With a minimum aperture size of 500mm x 900mm, it is perfect for residential use with aperture size restrictions.

* Comparison between S-180PE3R5 and S-180PE2R5B



Dimensions of Each Component

Heat Exchanger



Fan

Fan Casing

* The weight is for the 18.0kW model only

Specifications

R410A

Capacity			18.0kW	20.0kW	22.4kW
Model Name	Indoor Unit		S-180PE3R5	S-200PE3R5	S-224PE3R5
	Outdoor Unit		U-180PE2R8A	U-200PE2R8A	U-224PE2R8A
Cooling capacity : Heating capacity		kW	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	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 (24200-95,500)
EER : COP		W/W	3.02 : 3.53 | 3.02: 3.53	3.12 : 3.61 | 3.12 : 3.61	3.00 : 3.52 | 3.00 : 3.52
Total power input	Cooling : Heating	kW	5.96 : 5.66	6.41 : 6.20	7.46 : 7.10
Indoor Unit					
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz
		V	230V | 240V	230V | 240V	230V | 240V
Current	Cooling : Heating	A	3.10 : 3.10 | 3.00 : 3.00	3.30 : 3.30 | 3.20 : 3.20	4.20 : 4.20 | 4.10 : 4.10
Dimensions	H × W × D	mm	486 x 1456 x 916	486 x 1456 x 916	486 x 1456 x 916
Heat exchanger	H × W × D	mm	486 x 1,456 x 558	487 x 1,456 x 558	488 x 1,456 x 558
Fan	H × W × D	mm	377 x 1,150 x 427	377 x 1,150 x 427	377 x 1,150 x 427
Case	H × W × D	mm	434 x 1,178 x 360	434 x 1,178 x 360	434 x 1,178 x 360
Net weight		kg	85	86	88
Air volume	Cooling : Heating	L/s	1,200 / 1,050 / 883 : 1,200 / 1,050 / 883	1,200 / 1,050 / 883 : 1,200 / 1,050 / 883	1,400 / 1,200 / 983 : 1,400 / 1,200 / 983
External static pressure		Pa	60 (Max.150)	75 (Max.180)	75 (Max.200)
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	46 / 44 / 41 : 46 / 44 / 41	46 / 44 / 41 : 46 / 44 / 41	47 / 45 / 42 : 47 / 45 / 42
Sound power level (H/M/L)	Cooling : Heating	dB(A)	78 / 76 / 73 : 78 / 76 / 73	78 / 76 / 73 : 78 / 76 / 73	79 / 77 / 74 : 79 / 77 / 74
Number of fan speeds			3	3	3
Drain pipe size		mm	VP-25	VP-25	VP-25
Outdoor Unit					
Power source		Phase/Hz	3 Phase/ 50Hz	3 Phase/ 50Hz	3 Phase/ 50Hz
		V	400V | 415V	400V | 415V	400V | 415V
Current	Cooling : Heating	A	8.55 : 8.05 | 8.25 : 7.80	9.10 : 8.85 | 8.75 : 8.55	10.30 : 9.85 | 9.90 : 9.50
Dimensions	H × W × D	mm	1500 x 980 x 370	1500 x 980 x 370	1500 x 980 x 370
Net weight		kg	127	138	138
Air volume	Cooling : Heating	L/s	2,733 : 2,733	2,666 : 2,666	2,666 : 2,666
Sound pressure level (Silent mode)	Cooling : Heating	dB(A)	59 (57) : 61 (59)	60 (58) : 62 (60)	60 (58) : 62 (60)
Sound power level (Silent mode)	Cooling : Heating	dB(A)	77 (75) : 79 (77)	79 (77) : 81 (79)	79 (77) : 81 (79)
Piping connections	Liquid/Gas	m	Ø9.52 / Ø19.05	Ø12.7 / Ø19.05	Ø12.7 / Ø19.05
Pipe length	min. - max.	m	5 - 50	5 - 50	5 - 50
Elevation difference (OU located lower, OU located higher)		m	30, 30	30, 30	30, 30
Maximum chargeless length		m	30	30	30
Refrigerant at shipping, Additional gas amount		g	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

Tubing size is Ø12.70 (1/2) / Ø22.22 (7/8) when the length is over 90m. Please refer to technical documents for more details.

Indoor Unit

Mid Static Pressure

Ducted

Provides exceptional performance, super quiet operation and the ultimate in control. A perfect solution when ceiling heights are restricted.

ECONAVI
ECONAVI ready

Self-diagnosing Function | Automatic Fan Operation | Mild dry | Automatic Restart Function | Built-in Drain Pump

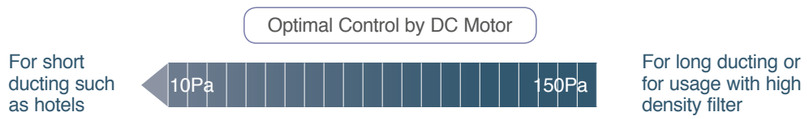
ECONAVI
ECONAVI ready

Technical focus

- Space saving 290mm height
- DC fan motor for variable external static pressure control
- Easy to install and maintain
- Air off sensor avoids cold air drafts during heating operation
- Configurable air temperature control

Variable external static pressure control

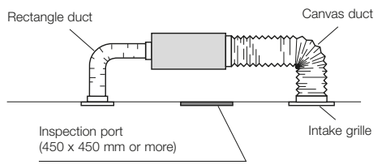
Optimal airflow set-up is possible for different ducting design and conditions.



* Please refer to technical documents for detail.

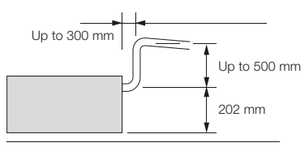
System example

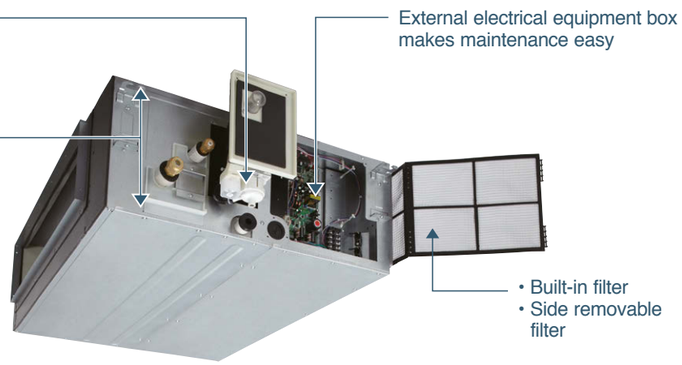
An inspection port (450 mm x 450 mm or larger) is required at the lower side of the indoor unit body.



More powerful drain pump

Using a high-lift built-in drain pump, drain piping can be elevated up to 702 mm from the base of the unit.

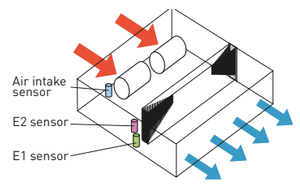




Discharge air temperature control

- Possible to control discharge air temperature for accurate room temperature control.
- Possible to reduce cold drafts during heating operation.

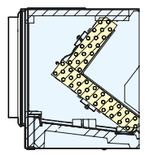
* Before spec-in, please consult with an authorised Panasonic dealer.



V-shaped heat exchanger

To improve heat exchange efficiency, an original V-shaped heat exchanger was developed incorporating a conventional high-efficiency fan and high-efficiency grooved heat transfer tubes. This increases the heat exchange surface area by about 80%*.

* Panasonic in-house data



Increases surface area by about 30 to 80%*

Indoor Unit: **Mid Static Pressure** Ducted

Specifications R410A

Capacity			6.0KW	7.1KW	10.0KW		12.5KW		14.0KW	
Model Name	Indoor Unit		S-60PF1E5B	S-71PF1E5B	S-100PF1E5B	S-100PF1E5B	S-125PF1E5B	S-125PF1E5B	S-140PF1E5B	S-140PF1E5B
	Outdoor Unit		U-60PE1R5A	U-71PE1R5A	U-100PE1R5A	U-100PE1R8A	U-125PE1R5A	U-125PE1R8A	U-140PE1R5A	U-140PE1R8A
Cooling capacity : Heating capacity		kW	6.0 (2.5 - 7.1) 7.0 (2.0 - 8.0)	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)
		BTU/h	20,500 (8,500 - 24,200) 23,900 (6,800 - 27,300)	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)
EER : COP		W/W	3.90 : 3.87	3.84 : 3.85	4.10 : 4.31	4.10 : 4.31	3.50 : 4.02	3.50 : 4.02	3.25 : 3.60	3.25 : 3.60
Total power input	Cooling : Heating	kW	1.54 : 1.81	1.85 : 2.08	2.44 : 2.60	2.44 : 2.60	3.57 : 3.48	3.57 : 3.48	4.31 : 4.44	4.31 : 4.44
Indoor Unit										
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	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	230V | 240V	230V | 240V	230V | 240V	230V | 240V
Current	Cooling : Heating	A	0.89 : 0.89 | 0.87 : 0.87	0.89 : 0.89 | 0.87 : 0.87	1.30 : 1.34 | 1.27 : 1.29	1.30 : 1.34 | 1.27 : 1.29	1.44 : 1.42 | 1.39 : 1.38	1.44 : 1.42 | 1.39 : 1.38	1.50 :1.50 | 1.47 : 1.46	1.50 :1.50 | 1.47 : 1.46
Dimensions	H × W × D	mm	290×1,000×700	290×1,000×700	290×1,400×700	290×1,400×700	290×1,400×700	290×1,400×700	290×1,400×700	290×1,400×700
Net weight		kg	33	33	45	45	45	45	45	45
Air volume	Cooling : Heating	L/s	350 : 350	350 : 350	533 : 533	533 : 533	566 : 566	566 : 566	600 : 600	600 : 600
External static pressure		Pa	70 (10 - 150)	70 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	35 / 32 / 26 : 35 / 32 / 26	35 / 32 / 26 : 35 / 32 / 26	38 / 34 / 31 : 38 / 34 / 31	38 / 34 / 31 : 38 / 34 / 31	39 / 35 / 32 : 39 / 35 / 32	39 / 35 / 32 : 39 / 35 / 32	40 / 36 / 33 : 40 / 36 / 33	40 / 36 / 33 : 40 / 36 / 33
Sound power level (H/M/L)	Cooling : Heating	dB(A)	57 / 54 / 48 : 57 / 54 / 48	57 / 54 / 48 : 57 / 54 / 48	60 / 56 / 53 : 60 / 56 / 53	60 / 56 / 53 : 60 / 56 / 53	61 / 57 / 54 : 61 / 57 / 54	61 / 57 / 54 : 61 / 57 / 54	62 / 58 / 55 : 62 / 58 / 55	62 / 58 / 55 : 62 / 58 / 55
Number of fan speeds			3	3	3	3	3	3	3	3
Drain piping		mm	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25
Outdoor Unit										
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz
		V	230V | 240V	230V | 240V	230V | 240V	400V | 415V	230V | 240V	400V | 415V	230V | 240V	400V | 415V
Current	Cooling : Heating	A	7.40 : 8.40 | 7.10 : 8.10	8.60 : 9.50 | 8.30 : 9.20	10.60 : 11.20 | 10.30 : 10.70	3.53 : 3.70 | 3.43 : 3.58	15.90 : 15.80 | 15.30 : 15.10	5.29 : 5.26 | 5.12 : 5.05	19.30 : 19.10 | 18.60 : 18.40	6.42 : 6.35 | 8.18 : 6.15
Dimensions	H × W × D	mm	996 × 940 × 340	996 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340
Net weight		kg	68	69	98	98	98	98	98	98
Air volume	Cooling : Heating	L/s	1,000 : 1,000	1,000 : 1,000	1,833 : 1,583	1,833 : 1,583	2,166 : 1,833	2,166 : 1,833	2,250 : 2,000	2,250 : 2,000
Sound pressure level	Cooling : Heating	dB(A)	48 (46) : 50 (48)	48 (46) : 50 (48)	52 (50) : 52 (50)	52 (50) : 52 (50)	53 (51) : 53 (51)	53 (51) : 53 (51)	54 (52) : 55 (53)	54 (52) : 55 (53)
Sound power level	Cooling : Heating	dB(A)	65 (63) : 67 (65)	65 (63) : 67 (65)	69 (67) : 69 (67)	69 (67) : 69 (67)	70 (68) : 70 (68)	70 (68) : 70 (68)	71 (69) : 71 (69)	71 (69) : 71 (69)
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	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
Pipe length	min. - max.	m	5 - 50	5 - 50	5 - 75	5 - 75	5 - 75	5 - 75	5 - 75	5 - 75
Elevation difference (OU located lower, OU located higher)		m	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30
Maximum chargeless length		m	30	30	30	30	30	30	30	30
Refrigerant at shipping, Additional gas amount		g	R410A 2,000, 50 (g/m)	R410A 2,350, 50 (g/m)	R410A 3,400, 50 (g/m)	R410A 3,400, 50 (g/m)	R410A 3,400, 50 (g/m)	R410A 3,400, 50 (g/m)	R410A 3,400, 50 (g/m)	R410A 3,400, 50 (g/m)
Operation ranges	Cooling : Heating	℃	-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	-15 to 46 : -20 to 24	-15 to 46 : -20 to 24

Specifications R32 REFRIGERANT

Capacity			6.0KW	7.1KW	10.0KW		12.5KW		14.0KW	
Model Name	Indoor Unit		S-60PF1E5B	S-71PF1E5B	S-100PF1E5B	S-100PF1E5B	S-125PF1E5B	S-125PF1E5B	S-140PF1E5B	S-140PF1E5B
	Outdoor Unit		U-60PZ2R5	U-71PZ2R5	U-100PZ2R5	U-100PZ2R8	U-125PZ2R5	U-125PZ2R8	U-140PZ2R5	U-140PZ2R8
Cooling capacity : Heating capacity		kW	6.0 (2.0 - 7.1) 6.0 (1.8 - 7.6)	7.1 (2.0 - 8.0) 7.1 (1.8 - 8.6)	10.0 (3.0 - 11.5) 10.0 (3.0 - 14.0)	10.0 (3.0 - 11.5) 10.0 (3.0 - 14.0)	12.5 (3.2 - 13.5) 12.5 (3.3 - 15.0)	12.5 (3.2 - 13.5) 12.5 (3.3 - 15.0)	14.0 (3.3 - 15.0) 14.0 (3.4 - 16.0)	14.0 (3.3 - 15.0) 14.0 (3.4 - 16.0)
		BTU/h	20,500 (6,800 - 24,200) 20,500 (6,100 - 25,900)	24,200 (6,800 - 27,300) 24,200 (6,100 - 29,300)	34,100 (10,200 - 39,200) 34,100 (10,200 - 47,800)	34,100 (10,200 - 39,200) 34,100 (10,200 - 47,800)	42,700 (10,900 - 46,100) 42,700 (11,300 - 51,200)	42,700 (10,900 - 46,100) 42,700 (11,300 - 51,200)	47,800 (11,300 - 51,200) 47,800 (11,600 - 54,600)	47,800 (11,300 - 51,200) 47,800 (11,600 - 54,600)
EER : COP		W/W	3.80 : 4.51 | 3.80 : 4.51	3.41 : 4.15 | 3.41 : 4.15	3.66 : 4.31	3.66 : 4.31	3.52 : 4.02	3.52 : 4.02	3.18 : 3.79	3.18 : 3.79
Total power input	Cooling : Heating	kW	1.58 : 1.33	2.08 : 1.71	2.73 : 2.32	2.73 : 2.32	3.55 : 3.11	3.55 : 3.11	4.40 : 3.69	4.40 : 3.69
Indoor Unit										
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	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	230V | 240V	230V | 240V	230V | 240V	230V | 240V
Current	Cooling : Heating	A	0.89 : 0.89 | 0.87 : 0.87	0.89 : 0.89 | 0.87 : 0.87	1.30 : 1.34 | 1.27 : 1.29	1.30 : 1.34 | 1.27 : 1.29	1.44 : 1.42 | 1.39 : 1.38	1.44 : 1.42 | 1.39 : 1.38	1.50 : 1.50 | 1.47 : 1.46	1.50 : 1.50 | 1.47 : 1.46
Dimensions	H × W × D	mm	290×1,000 ×700	290×1,000 ×700	290×1,400 ×700	290×1,400 ×700	290×1,400 ×700	290×1,400 ×700	290×1,400 ×700	290×1,400 ×700
Net weight		kg	33	33	45	45	45	45	45	45
Air volume	Cooling : Heating	L/s	350 : 350	350 : 350	533 : 533	533 : 533	566 : 566	566 : 566	600 : 600	600 : 600
External static pressure		Pa	70 (10 - 150)	70 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	35 / 32 / 26 : 35 / 32 / 26	35 / 32 / 26 : 35 / 32 / 26	38 / 34 / 31 : 38 / 34 / 31	38 / 34 / 31 : 38 / 34 / 31	39 / 35 / 32 : 39 / 35 / 32	39 / 35 / 32 : 39 / 35 / 32	40 / 36 / 33 : 40 / 36 / 33	40 / 36 / 33 : 40 / 36 / 33
Sound power level (H/M/L)	Cooling : Heating	dB(A)	57 / 54 / 48 : 57 / 54 / 48	57 / 54 / 48 : 57 / 54 / 48	60 / 56 / 53 : 60 / 56 / 53	60 / 56 / 53 : 60 / 56 / 53	61 / 57 / 54 : 61 / 57 / 54	61 / 57 / 54 : 61 / 57 / 54	62 / 58 / 55 : 62 / 58 / 55	62 / 58 / 55 : 62 / 58 / 55
Number of fan speeds			3	3	3	3	3	3	3	3
Drain piping		mm	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25
Outdoor Unit										
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz
		V	230V | 240V	230V | 240V	230V | 240V	400V | 415V	230V | 240V	400V | 415V	230V | 240V	400V | 415V
Current	Cooling : Heating	A	7.05 : 5.85 | 6.75 : 5.60	9.35 : 7.70 | 8.95 : 7.35	11.6 : 9.70 | 11.1 : 9.30	3.95 : 3.30 | 3.80 : 3.20	15.5 : 13.4 | 14.8 : 12.9	5.10 : 4.45 | 4.95 : 4.30	19.3 : 16.0 | 18.6 : 15.3	6.40 : 5.30 | 6.15 : 5.15
Dimensions	H × W × D	mm	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	44	44	90	90	94	94	94	94
Air volume	Cooling : Heating	L/s	750 : 750	867 : 750	1,285 : 1,169	1,285 : 1,169	1,436 : 1,302	1,436 : 1,302	1,486 : 1,386	1,486 : 1,386
Sound pressure level	Cooling : Heating	dB(A)	46 (44) : 48 (46)	49 (47) : 49 (47)	52 (50) : 52 (50)	52 (50) : 52 (50)	55 (53) : 55 (53)	55 (53) : 55 (53)	56 (54) : 56 (54)	56 (54) : 56 (54)
Sound power level	Cooling : Heating	dB(A)	65 (63) : 66 (64)	67 (65) : 67 (65)	68 (66) : 67 (65)	68 (66) : 67 (65)	70 (68) : 70 (68)	70 (68) : 70 (68)	71 (69) : 71 (69)	71 (69) : 71 (69)
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	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
Pipe length	min. - max.	m	3 - 40	3 - 40	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50
Elevation difference (OU located lower, OU located higher)		m	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30
Maximum chargeless length		m	30	30	30	30	30	30	30	30
Refrigerant at shipping, Additional gas amount		g	R32, 1,450, 35 (g/m)	R32, 1,450, 35 (g/m)	R32, 2,600, 45 (g/m)	R32, 2,600, 45 (g/m)	R32, 2,980, 45 (g/m)	R32, 2,980, 45 (g/m)	R32, 2,980, 45 (g/m)	R32, 2,980, 45 (g/m)
Operation ranges	Cooling : Heating	℃	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24

Indoor Unit

4-WAY Cassette

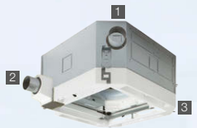
Provides a neat fit in the ceiling to match modern decor, and uniform cooling throughout the room, plus easy installation.

nanoeX ready

ECONAVI ready

Self-diagnosing Function | Automatic Fan Operation | Mild dry | Intelligent Auto Swing | Automatic Restart Function | Auto Swing (Auto Flap Control) | Built-in Drain Pump

AIR INTAKE CHAMBER



1 Air intake flange (ø100) (field supply).
2 Air intake box CZ-ATU2* for Air intake plenum.
3 Air intake plenum CZ-FDU3

* When using Air intake box (CZ-ATU2), Air intake plenum (CZ-FDU3) required.

PANEL (CZ-KPU3/3A)

Nomal Panel : CZ-KPU3
ECONAVI Panel : CZ-KPU3A

CZ-CENSC1 CZ-RTC5B CZ-RTC4

OPTIONAL nanoe™X KIT

CZ-CNEXU1
(CZ-RTC5B is required)

NEW

S-60PU2E5B S-125PU2E5B
S-71PU2E5B S-140PU2E5B
S-100PU2E5B

Technical focus

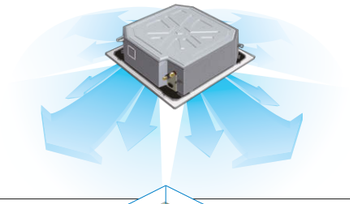
- Compact design
- Low sound levels
- DC fan motor for increased efficiency
- Powerful drain pump gives 850 mm lift
- Lightweight design
- Fresh air knockout
- Branch duct connection
- Optional air-intake plenum CZ-FDU3

360° Wide & Comfortable Airflow

Ample airflow: 600 l/s
Industry's leading in the 140PU class.

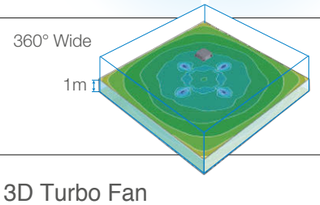
Comfort/Quiet

Our design features wide-angle outlets and flaps that were designed through expert mechanics and prototype tests. Air from the center is sent farther and the air blown out of the larger, side flaps spreads throughout the room. The air comes from all for sides of the unit and expands gently in a circle centered on the indoor unit.



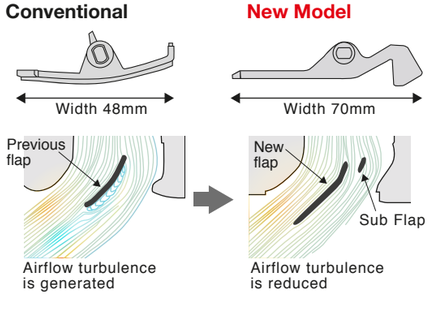
Temperature distribution by thermograph (cooling operation)

Simulation conditions:
P140 4-way ceiling-mounted cassette type in cooling mode / Floor area of 225 m²/ Ceiling height of 3 m



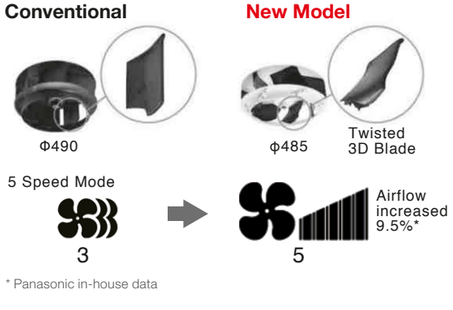
Wide Flap

Adding a sub flap and widening the main flap have reduced turbulence and increased airflow. Also, setting the jetting port at a wider angle allows the airflow to reach the corners of the room more quickly.



3D Turbo Fan

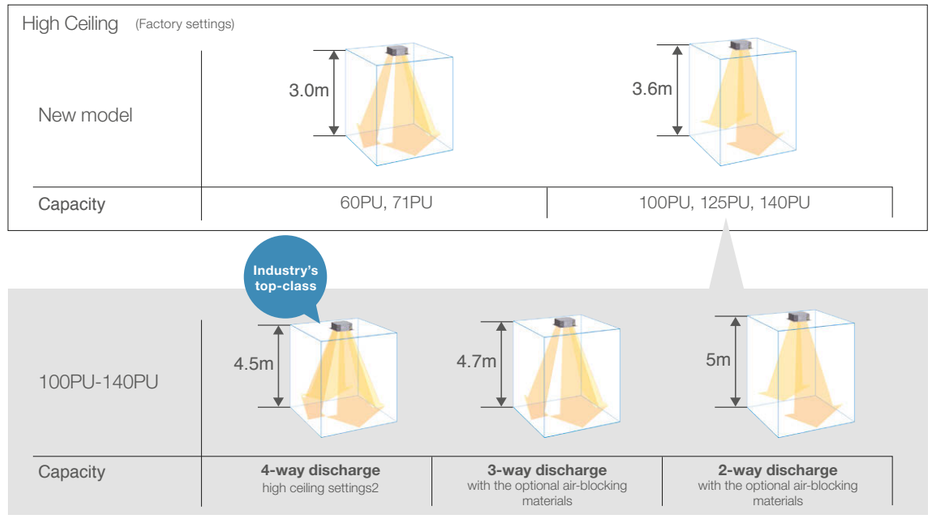
Using a twisted 3D blade made the unit slimmer and more compact, while also increasing the airflow.
A 5-Speed mode allows the airflow to be adjusted in 5 steps to suit the situation.



* Panasonic in-house data

High-Ceiling Installation (Up to 5 m for 10.0kW+ models)

The units can be installed in rooms with high ceilings, where they provide ample floor-level heating in the winter. (See ceiling height guidelines below.)



Ceiling height guidelines

*1 settings / Indoor unit	4-way discharge			3-way discharge (optional air-blocking materials)	2-way discharge (optional air-blocking materials) *2
	Factory settings 1	High ceiling setting 1	High ceiling setting 2		
60PU-71PU	3.0	3.3	3.6	3.8	4.2
100PU, 125PU, 140PU	3.6	3.9	4.5	4.7	5.0

*1 When using the unit in a configuration other than the factory settings, it is necessary to make settings on site to increase airflow.
*2 Use air-blocking materials (CZ-CFU3) to completely block two discharge outlets for 2-way airflow.

Air Purification by nanoe™ Technology

nanoe™ is Panasonic's unique air purifying technology. Introduced in 2003, nanoe™ has brought comfortable, clean air to a wide variety of living environments. By conducting further research & development, Panasonic has now succeeded in developing nanoe™ X, with dramatically increased performance.

nanoe™ X Improves Air Quality

Panasonic's unique nanoe™ X has an outstanding effect on various air pollutants, including allergens, viruses and bacteria, as well as cigarette and other household odours. It takes reliable air purification performance another step forward.

Deodorises unpleasant odours *1 *2 *3

nanoe™ X works on the substances responsible for odours to deodorize them.

Inhibits bacteria and virus *4 *5 *6 *7 *8

nanoe™ X suppresses airborne particles including bacteria, viruses and mould.

*1 Adhering odour of cigarette [Effectiveness]: Decrease by 1.7 level [Testing Institute]: Gunma Research Center [Test Report No]: No. 27055 [Result]: Decrease in odour intensity by 0.7 level after 2 hour of operation. *2 Floating odour of cigarette [Effectiveness]: Decrease by 0.8level [Test Lab Size]:136.5m3 [Testing Institute]: Panasonic Corporation Product Analysis Center [Test Report No]: 4AA33-170117-A01 [Result]: Decrease in odour intensity by 0.8 level after 2 hour of operation. *3 Adhering odour of Meat Grilling [Effectiveness]: Decrease by 0.9 level [Test Lab Size]:67.7m3 [Testing Institute]: Panasonic Corporation Product Analysis Center [Test Report No]: 4AA33-170203-A03 [Result]: Decrease in odour intensity by 0.9 level after 2 hour of operation. *4 Mould [Effectiveness]: Inhibit Mould Growth [Testing Institute]: Japan Food Research Laboratories [Test Report No]: 13044083002-01 [Result]: The growth of the subject was inhibited after 8-hour nanoe™ operation. *5 Bacteria [Effectiveness]: 99% [Testing Institute]: Kitasato Research Center for Environmental Science [Test Report No]: KRCES-Env. Test Report 24_0301_1 [Result]: 99% of deactivation after 4-hour nanoe™ operation. *6 Bacteria [Effectiveness]: 99% [Testing Institute]: Japan Food Research Laboratories [Test Report No]: 13044083002-01 [Result]: The growth of the subject was inhibited after 8-hour nanoe™ operation. *7 Viruses [Effectiveness]: 99% [Testing Institute]: Kitasato Research Center for Environmental Science [Test Report No]: KRCES-Env. Test Report 24_0300_1 [Result]: 99% of deactivation after 6-hour nanoe™ operation. *8 Viruses [Effectiveness]: 99% [Testing Institute]: Japan Food Research Laboratories [Test Report No]: 13001265005-01 [Result]: 99% of deactivation after 8-hour nanoe™ operation.

nanoe™ X Mechanism

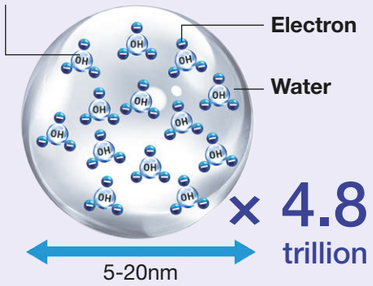
Amount of OH radicals increases without increasing amount of ozone, leading to improved effectiveness!

Generation Mechanism

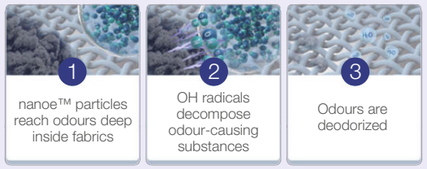
nanoe™ X is generated from moisture in the air

Structure

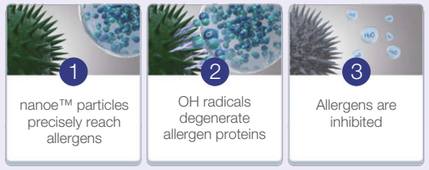
OH radical



How to Deodorise Odour *1 *2 *3



How to Inhibit Bacteria, Virus and Mould *4 *5 *6 *7 *8



Also Cleans the Air When Not Air Conditioning

You can also use nanoe™ X in Fan mode when you're not cooling or heating the room. For example, you can use nanoe™ X to effectively suppress bacteria and odours without using excessive electricity when the office is empty or after business hours in a restaurant.

Business Time

AC Mode + nanoe™ X

nanoe™ X purifies the room while maintaining the comfort temperature when people are in presence.

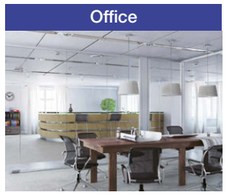
Closed Time

FAN Mode + nanoe™ X

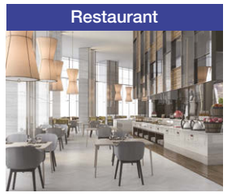
After closing shops and facilities, nanoe™ X can perform air purification while they are not in use.

Case Examples of nanoe™

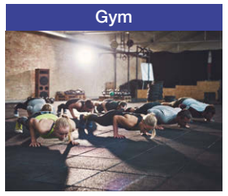
Office



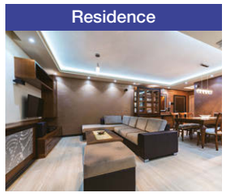
Restaurant



Gym



Residence



Indoor Unit: 4-Way Cassette

Specifications R410A

Capacity			6.0kW	7.1kW	10.0kW		12.5kW		14.0kW	
Model Name	Indoor Unit		S-60PU2E5B	S-71PU2E5B	S-100PU2E5B	S-100PU2E5B	S-125PU2E5B	S-125PU2E5B	S-140PU2E5B	S-140PU2E5B
	Outdoor Unit		U-60PE1R5A	U-71PE1R5A	U-100PE1R5A	U-100PE1R8A	U-125PE1R5A	U-125PE1R8A	U-140PE1R5A	U-140PE1R8A
	Panel		Standard type:CZ-KPU3:ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3:ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3:ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3:ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3:ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3:ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3:ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3:ECONAVI type:CZ-KPU3A
Cooling capacity Heating capacity		kW	6.0 (2.5 - 7.1) 7.0 (2.0 - 8.0)	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)
		BTU/h	20,500 (8,500 - 24,200) 23,900 (6,800 - 27,300)	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)
EER : COP	Cooling : Heating	W/W	4.11 : 4.27	3.94 : 4.30	4.27 : 5.00	4.27 : 5.00	3.70 : 4.60	3.70 : 4.60	3.30 : 4.30	3.30 : 4.30
Total power input	Cooling : Heating	kW	1.46 : 1.64	1.80 : 1.86	2.34 : 2.24	2.34 : 2.24	3.37 : 3.04	3.37 : 3.04	4.24 : 3.72	4.24 : 3.72
Indoor Unit										
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	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	230V | 240V	230V | 240V	230V | 240V	230V | 240V
Current	Cooling : Heating	A	0.35 : 0.34 | 0.34 : 0.33	0.39 : 0.38 | 0.38 : 0.37	0.79 : 0.78 | 0.76 : 0.75	0.79 : 0.78 | 0.76 : 0.75	0.88 : 0.87 | 0.85 : 0.84	0.88 : 0.87 | 0.85 : 0.84	0.94 : 0.93 | 0.91 : 0.90	0.94 : 0.93 | 0.91 : 0.90
Dimensions H × W × D	Indoor	mm	256×840×840	256×840×840	319×840×840	319×840×840	319×840×840	319×840×840	319×840×840	319×840×840
	Panel	mm	33.5×950×950	33.5×950×950	33.5×950×950	33.5×950×950	33.5×950×950	33.5×950×950	33.5×950×950	33.5×950×950
Net weight	Indoor	kg	20	20	25	25	25	25	25	25
	Panel	kg	5	5	5	5	5	5	5	5
Air volume	Cooling : Heating	L/s	350 / 266 / 216 : 350 / 266 / 216	366 / 266 / 216 : 366 / 266 / 216	600 / 433 / 300 : 600 / 433 / 300	600 / 433 / 300 : 600 / 433 / 300	616 / 450 / 316 : 616 / 450 / 316	616 / 450 / 316 : 616 / 450 / 316	633 / 483 / 333 : 633 / 483 / 333	633 / 483 / 333 : 633 / 483 / 333
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	36 / 31 / 28 : 36 / 31 / 28	37 / 31 / 28 : 37 / 31 / 28	45 / 38 / 32 : 45 / 38 / 32	45 / 38 / 32 : 45 / 38 / 32	46 / 39 / 33 : 45 / 39 / 33	46 / 39 / 33 : 45 / 39 / 33	47 / 40 / 34 : 47 / 40 / 34	47 / 40 / 34 : 47 / 40 / 34
Sound power level (H/M/L)	Cooling : Heating	dB(A)	51 / 46 / 43 : 51 / 46 / 43	52 / 46 / 43 : 52 / 46 / 43	60 / 53 / 47 : 60 / 53 / 47	60 / 53 / 47 : 60 / 53 / 47	61 / 54 / 48 : 61 / 54 / 48	61 / 54 / 48 : 61 / 54 / 48	62 / 55 / 49 : 62 / 55 / 49	62 / 55 / 49 : 62 / 55 / 49
Number of fan speeds			5*	5*	5*	5*	5*	5*	5*	5*
Drain pipe size		mm	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25
Outdoor Unit										
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz
		V	230V | 240V	230V | 240V	230V | 240V	400V | 415V	230V | 240V	400V | 415V	230V | 240V	400V | 415V
Current	Cooling : Heating	A	6.80 : 7.40 | 6.60 : 7.20	8.10 : 8.25 | 7.90 : 8.00	10.1 : 9.70 | 9.70 : 9.40	3.45 : 3.30 | 3.35 : 3.20	14.7 : 13.3 | 13.3 : 12.9	5.00 : 4.50 | 4.80 : 4.35	18.6 : 16..3 | 18.0 : 15.8	6.30 : 6.10 | 5.50 : 5.35
Dimensions H × W × D		mm	996 × 940 × 340	996 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340
Net weight		kg	68	69	98	98	98	98	98	98
Air volume	Cooling : Heating	L/s	1,000 : 1,000	1,000 : 1,000	1,833 : 1,583	1,833 : 1,583	2,166 : 1,833	2,166 : 1,833	2,250 : 2,000	2,250 : 2,000
Sound pressure level (Silent mode)	Cooling : Heating	dB(A)	48 (46) : 50 (48)	48 (46) : 50 (48)	52 (50) : 52 (50)	52 (50) : 52 (50)	53 (51) : 53 (51)	53 (51) : 53 (51)	54 (52) : 55 (53)	54 (52) : 55 (53)
Sound power level (Silent mode)	Cooling : Heating	dB(A)	65 (63) : 67 (65)	65 (63) : 67 (65)	69 (67) : 69 (67)	69 (67) : 69 (67)	70 (68) : 70 (68)	70 (68) : 70 (68)	71 (69) : 71 (69)	71 (69) : 71 (69)
Piping connections		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	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
Pipe length	min. - max.	m	5 - 50	5 - 50	5 - 75	5 - 75	5 - 75	5 - 75	5 - 75	5 - 75
Elevation difference (OU located lower, OU located higher)		m	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30
Maximum chargeless length		m	30	30	30	30	30	30	30	30
Refrigerant at shipping, Additional gas amount		g	R410A 2,000, 50 (g/m)	R410A 2,350, 50 (g/m)	R410A 3,400, 50 (g/m)	R410A 3,400, 50 (g/m)	R410A 3,400, 50 (g/m)	R410A 3,400, 50 (g/m)	R410A 3,400, 50 (g/m)	R410A 3,400, 50 (g/m)
Operation ranges	Cooling : Heating	℃	-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	-15 to 46 : -20 to 24	-15 to 46 : -20 to 24

Specifications R32 REFRIGERANT

Capacity			6.0kW	7.1kW	10.0kW		12.5kW		14.0kW	
Model Name	Indoor Unit		S-60PU2E5B	S-71PU2E5B	S-100PU2E5B	S-100PU2E5B	S-125PU2E5B	S-125PU2E5B	S-140PU2E5B	S-140PU2E5B
	Outdoor Unit		U-60PZ2R5	U-71PZ2R5	U-100PZ2R5	U-100PZ2R8	U-125PZ2R5	U-125PZ2R8	U-140PZ2R5	U-140PZ2R8
	Panel		Standard type:CZ-KPU3:ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3:ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3:ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3:ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3:ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3:ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3:ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3:ECONAVI type:CZ-KPU3A
Cooling capacity Heating capacity		kW	6.0 (2.0 - 7.1) 6.0 (1.8 - 7.6)	7.1 (2.0 - 8.0) 7.1 (1.8 - 8.6)	10.0 (3.0 - 11.5) 10.0 (3.0 - 14.0)	10.0 (3.0-11.5) 10.0 (3.0-14.0)	12.5 (3.2 - 13.5) 12.5 (3.3 - 15.0)	12.5 (3.2 - 13.5) 12.5 (3.3 - 15.0)	14.0 (3.3 - 15.0) 14.0 (3.4 - 16.0)	14.0 (3.3 - 15.0) 14.0 (3.4 - 16.0)
		BTU/h	20,500 (6,800 - 24,200) 20,500 (6,100 - 25,900)	24,200 (6,800 - 27,300) 24,200 (6,100 - 29,300)	34,100 (10,200 - 39,200) 34,100 (10,200 - 47,800)	34,100 (10,200-39,200) 34,100 (10,200 - 47,800)	42,700 (10,900 - 46,100) 42,700 (11,300 - 51,200)	42,700 (10,900 - 46,100) 42,700 (11,300 - 51,200)	47,800 (11,300 - 51,200) 47,800 (11,600 - 54,600)	47,800 (11,300 - 51,200) 47,800 (11,600 - 54,600)
EER : COP	Cooling : Heating	W/W	4.05 : 4.80 | 4.05 : 4.80	3.68 : 4.38 | 3.68 : 4.38	3.82 : 4.93 | 3.82 : 4.93	3.82 : 4.93 | 3.82 : 4.93	3.58 : 4.43 | 3.58 : 4.43	3.58 : 4.43 | 3.58 : 4.43	3.23 : 4.18 | 3.23 : 4.18	3.23 : 4.18 | 3.23 : 4.18
Total power input	Cooling : Heating	kW	1.48 : 1.25	1.93 : 1.62	2.62 : 2.03	2.62 : 2.03	3.49 : 2.82	3.49 : 2.82	4.34 : 3.35	4.34 : 3.35
Indoor Unit										
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	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	230V | 240V	230V | 240V	230V | 240V	230V | 240V
Current	Cooling : Heating	A	0.35 : 0.34 | 0.34 : 0.33	0.39 : 0.38 | 0.38 : 0.37	0.79 : 0.78 | 0.76 : 0.75	0.79 : 0.78 | 0.76 : 0.75	0.88 : 0.87 | 0.85 : 0.84	0.88 : 0.87 | 0.85 : 0.84	0.94 : 0.93 | 0.91 : 0.90	0.94 : 0.93 | 0.91 : 0.90
Dimensions H × W × D	Indoor	mm	256×840 ×840	256×840 ×840	319×840 ×840	319×840 ×840	319×840 ×840	319×840 ×840	319×840 ×840	319×840 ×840
	Panel	mm	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950
Net weight	Indoor	kg	20	20	25	25	25	25	25	25
	Panel	kg	5	5	5	5	5	5	5	5
Air volume	Cooling : Heating	L/s	350 / 266 / 216 : 350 / 266 / 216	366 / 266 / 216 : 366 / 266 / 216	600 / 433 / 300 : 600 / 433 / 300	600 / 433 / 300 : 600 / 433 / 300	616 / 450 / 316 : 616 / 450 / 316	616 / 450 / 316 : 616 / 450 / 316	633 / 483 / 333 : 633 / 483 / 333	633 / 483 / 333 : 633 / 483 / 333
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	36 / 31 / 28 : 36 / 31 / 28	37 / 31 / 28 : 37 / 31 / 28	45 / 38 / 32 : 45 / 38 / 32	45 / 38 / 32 : 45 / 38 / 32	46 / 39 / 33 : 45 / 39 / 33	46 / 39 / 33 : 45 / 39 / 33	47 / 40 / 34 : 47 / 40 / 34	47 / 40 / 34 : 47 / 40 / 34
Sound power level (H/M/L)	Cooling : Heating	dB(A)	51 / 46 / 43 : 51 / 46 / 43	52 / 46 / 43 : 52 / 46 / 43	60 / 53 / 47 : 60 / 53 / 47	60 / 53 / 47 : 60 / 53 / 47	61 / 54 / 48 : 61 / 54 / 48	61 / 54 / 48 : 61 / 54 / 48	62 / 55 / 49 : 62 / 55 / 49	62 / 55 / 49 : 62 / 55 / 49
Number of fan speeds			5*	5*	5*	5*	5*	5*	5*	5*
Drain pipe size		mm	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25
Outdoor Unit										
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz
		V	230V | 240V	230V | 240V	230V | 240V	400V | 415V	230V | 240V	400V | 415V	230V | 240V	400V | 415V
Current	Cooling : Heating	A	6.95 : 5.85 | 6.70 : 5.60	9.00 : 7.65 | 8.65 : 7.30	11.5 : 8.85 | 11.1 : 8.50	3.90 : 3.00 | 3.75 : 2.90	15.6 : 12.6 | 15.0 : 12.0	5.20 : 4.15 | 5.00 : 4.00	19.5 : 15.0 | 18.7 : 14.3	6.50 : 4.95 | 6.25 : 4.80
Dimensions H × W × D		mm	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	44	44	90	90	94	94	94	94
Air volume	Cooling : Heating	L/s	750 : 750	867 : 750	1,285 : 1,169	1,285 : 1,169	1,436 : 1,302	1,436 : 1,302	1,486 : 1,386	1,486 : 1,386
Sound pressure level (Silent mode)	Cooling : Heating	dB(A)	46 (44) : 48 (46)	49 (47) : 49 (47)	52 (50) : 52 (50)	52 (50) : 52 (50)	55 (53) : 55 (53)	55 (53) : 55 (53)	56 (54) : 56 (54)	56 (54) : 56 (54)
Sound power level (Silent mode)	Cooling : Heating	dB(A)	65 (63) : 66 (64)	67 (65) : 67 (65)	68 (66) : 67 (65)	68 (66) : 67 (65)	70 (68) : 70 (68)	70 (68) : 70 (68)	71 (69) : 71 (69)	71 (69) : 71 (69)
Piping connections		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	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
Pipe length	min. - max.	m	3 - 40	3 - 40	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50
Elevation difference (OU located lower, OU located higher)		m	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30
Maximum chargeless length		m	30	30	30	30	30	30	30	30
Refrigerant at shipping, Additional gas amount		g	R32, 1,450, 35 (g/m)	R32, 1,450, 35 (g/m)	R32, 2,600, 45 (g/m)	R32, 2,600, 45 (g/m)	R32, 2,980, 45 (g/m)	R32, 2,980, 45 (g/m)	R32, 2,980, 45 (g/m)	R32, 2,980, 45 (g/m)
Operation ranges	Cooling : Heating	℃	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24

* When using CZ-RTC5B, the number of fan speed will be 3 for other controller.

Indoor Unit

Under Ceiling

Providing outstanding energy-saving performance,
comfort and long-distance airflow distribution,
these units are perfect for retail stores and schools.

ECONAVI
ECONAVI ready

S-60PT2E5B
S-71PT2E5B

S-100PT2E5B
S-125PT2E5B
S-140PT2E5B

ECONAVI
ECONAVI ready

CZ-CENSC1 CZ-RTC5B CZ-RTC4

Compact Looking, Stylish, One-Motion Design

With its streamlined, one-motion form, the unit looks thin and compact when installed for a neat appearance in any room.
When not operating, the louver closes to provide an elegant look while also keeping the unit clean.

Energy-Saving Technology Delivering Top-Class Efficiency

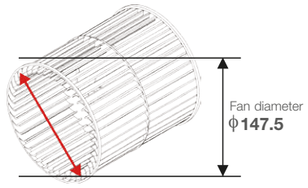
Top Class Energy Saving

Optimisation of the shape of the casing and fan assures bigger air flow and higher efficiency.
Energy-saving performance is top class in the industry.

New DC fan motor

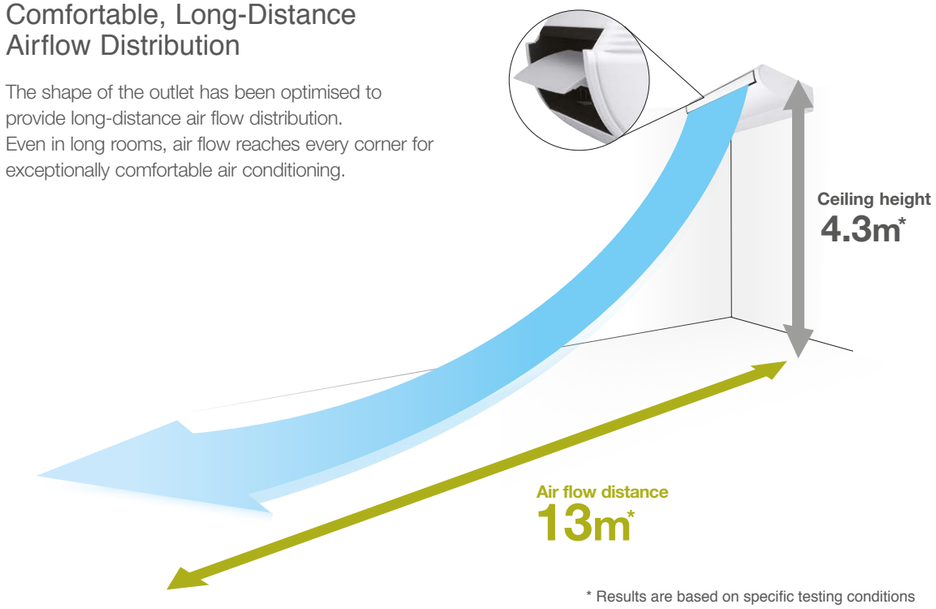
DC motor

Large Diagonal Air Flow Fan



Comfortable, Long-Distance Airflow Distribution

The shape of the outlet has been optimised to provide long-distance air flow distribution.
Even in long rooms, air flow reaches every corner for exceptionally comfortable air conditioning.



* Results are based on specific testing conditions

High Ceiling Setting *Setting by remote control	Air flow distance		
	100	125	140
4.3m	12m	13m	13m

Indoor Unit: Under Ceiling

Specifications R410A

Capacity			6.0kW	7.1kW	10.0kW		12.5kW		14.0kW	
Model Name	Indoor Unit		S-60PT2E5B	S-71PT2E5B	S-100PT2E5B	S-100PT2E5B	S-125PT2E5B	S-125PT2E5B	S-140PT2E5B	S-140PT2E5B
	Outdoor Unit		U-60PE1R5A	U-71PE1R5A	U-100PE1R5A	U-100PE1R8A	U-125PE1R5A	U-125PE1R8A	U-140PE1R5A	U-140PE1R8A
Cooling capacity : Heating capacity		kW	6.0 (2.5 - 7.1) 7.0 (2.0 - 8.0)	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 - 15.0) 16.0 (4.1 - 18.0)	14.0 (3.3 - 15.0) 16.0 (4.1 - 18.0)
		BTU/h	20,500 (8,500 - 24,200) 23,900 (6,800 - 27,300)	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 - 51,200) 54,600 (14,000 - 61,400)	47,800 (11,300 - 51,200) 54,600 (14,000 - 61,400)
EER : COP		W/W	4.03 : 4.02	3.68 : 4.15	3.95 : 4.31	3.95 : 4.31	3.35 : 3.99	3.35 : 3.99	3.01 : 3.67	3.01 : 3.67
Total power input	Cooling : Heating	kW	1.49 : 1.74	1.93 : 1.93	2.53 : 2.60	2.53 : 2.60	3.73 : 3.51	3.73 : 3.51	4.65 : 4.36	4.65 : 4.36
Indoor Unit										
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	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	230V | 240V	230V | 240V	230V | 240V	230V | 240V
Current	Cooling : Heating	A	0.41 : 0.41 | 0.40 : 0.40	0.44 : 0.44 | 0.43 : 0.43	0.67 : 0.67 | 0.65 : 0.65	0.67 : 0.67 | 0.65 : 0.65	0.86 : 0.86 | 0.83 : 0.83	0.86 : 0.86 | 0.83 : 0.83	0.91 : 0.91 | 0.88 : 0.88	0.91 : 0.91 | 0.88 : 0.88
Dimensions	H × W × D	mm	235 × 1,275 × 690	235 × 1,275 × 690	235 × 1,590 × 690	235 × 1,590 × 690	235 × 1,590 × 690	235 × 1,590 × 690	235 × 1,590 × 690	235 × 1,590 × 690
Net weight		kg	33	33	40	40	40	40	40	40
Air volume	Cooling : Heating	L/s	333 : 333	350 : 350	500 : 500	500 : 500	566 : 566	566 : 566	583 : 583	583 : 583
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	38 / 34 / 30 : 38 / 34 / 30	39 / 35 / 31 : 39 / 35 / 31	42 / 37 / 35 : 42 / 37 / 35	42 / 37 / 35 : 42 / 37 / 35	46 / 40 / 36 : 46 / 40 / 36	46 / 40 / 36 : 46 / 40 / 36	47 / 41 / 37 : 47 / 41 / 37	47 / 41 / 37 : 47 / 41 / 37
Sound power level (H/M/L)	Cooling : Heating	dB(A)	56 / 52 / 48 : 56 / 52 / 48	57 / 53 / 49 : 57 / 53 / 49	60 / 55 / 53 : 60 / 55 / 53	60 / 55 / 53 : 60 / 55 / 53	64 / 58 / 54 : 64 / 58 / 54	64 / 58 / 54 : 64 / 58 / 54	65 / 59 / 55 : 65 / 59 / 55	65 / 59 / 55 : 65 / 59 / 55
Number of fan speeds			3	3	3	3	3	3	3	3
Drain pipe size		mm	VP-20	VP-20	VP-20	VP-20	VP-20	VP-20	VP-20	VP-20
Outdoor Unit										
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz
		V	230V | 240V	230V | 240V	230V | 240V	400V | 415V	230V | 240V	400V | 415V	230V | 240V	400V | 415V
Current	Cooling : Heating	A	6.90 : 7.80 | 6.70 : 7.60	8.70 : 8.60 | 8.40 : 8.30	11.1 : 11.4 | 10.6 : 11.0	3.75 : 3.85 | 3.65 : 3.75	16.4 : 15.4 | 15.8 : 14.9	5.55 : 5.20 | 5.35 : 5.05	20.5 : 19.2 | 19.8 : 18.5	6.95 : 6.50 | 6.70 : 6.25
Dimensions	H × W × D	mm	996 × 940 × 340	996 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340
Net weight		kg	68	69	98	98	98	98	98	98
Air volume	Cooling : Heating	L/s	1,000: 1,000	1,000: 1,000	1,833: 1,583	1,833: 1,583	2,166: 1,833	2,166: 1,833	2,250: 2,000	2,250: 2,000
Sound pressure level	Cooling : Heating	dB(A)	48 (46) : 50 (48)	48 (46) : 50 (48)	52 (50) : 52 (50)	52 (50) : 52 (50)	53 (51) : 53 (51)	53 (51) : 53 (51)	54 (52) : 55 (53)	54 (52) : 55 (53)
Sound power level	Cooling : Heating	dB(A)	65 (63) : 67 (65)	65 (63) : 67 (65)	69 (67) : 69 (67)	69 (67) : 69 (67)	70 (68) : 70 (68)	70 (68) : 70 (68)	71 (69) : 71 (69)	71 (69) : 71 (69)
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	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
Pipe length	min. - max.	m	5 - 50	5 - 50	5 - 75	5 - 75	5 - 75	5 - 75	5 - 75	5 - 75
Elevation difference (OU located lower, OU located higher)		m	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30
Maximum chargeless length		m	30	30	30	30	30	30	30	30
Refrigerant at shipping, Additional gas amount		g	R410A 2,000, 50 (g/m)	R410A 2,350, 50 (g/m)	R410A 3,400, 50 (g/m)	R410A 3,400, 50 (g/m)	R410A 3,400, 50 (g/m)	R410A 3,400, 50 (g/m)	R410A 3,400, 50 (g/m)	R410A 3,400, 50 (g/m)
Operation ranges	Cooling : Heating	℃	-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	-15 to 46 : -20 to 24	-15 to 46 : -20 to 24

Specifications R32

Capacity			6.0kW	7.1kW	10.0kW		12.5kW		14.0kW	
Model Name	Indoor Unit		S-60PT2E5B	S-71PT2E5B	S-100PT2E5B	S-100PT2E5B	S-125PT2E5B	S-125PT2E5B	S-140PT2E5B	S-140PT2E5B
	Outdoor Unit		U-60PZ2R5	U-71PZ2R5	U-100PZ2R5	U-100PZ2R8	U-125PZ2R5	U-125PZ2R8	U-140PZ2R5	U-140PZ2R8
Cooling capacity : Heating capacity		kW	6.0(2.0-7.1) 6.0(1.8-7.6)	7.1(2.0-8.0) 7.1(1.8-8.6)	10.0 (3.0-11.5) 10.0 (3.0-14.0)	10.0 (3.0-11.5) 10.0 (3.0-14.0)	12.5 (3.2-13.5) 12.5 (3.3-15.0)	12.5 (3.2-13.5) 12.5 (3.3-15.0)	13.6 (3.3-15.0) 14.0 (3.4-16.0)	13.6 (3.3-15.0) 14.0 (3.4-16.0)
		BTU/h	20,500 (6,800 - 24,200) 20,500 (6,100 - 25,900)	24,200 (6,800 - 27,300) 24,200 (6,800 - 29,300)	34,100 (10,200 - 39,200)) 34,100 (10,200 - 47,800)	34,100 (10,200 - 39,200) 34,100 (10,200 - 47,800)	42,700 (10,900 - 46,100) 42,700 (11,300 - 51,200)	42,700 (10,900 - 46,100) 42,700 (11,300 - 51,200)	46,400 (11,300 - 51,200) 47,800 (11,600 - 54,600)	46,400 (11,300 - 51,200) 47,800 (11,600 - 54,600)
EER : COP		W/W	4.05 : 4.80 | 4.05 : 4.80	3.68 : 4.38 | 3.66 : 4.38	3.64 : 4.24 | 3.64 : 4.24	3.64 : 4.24 | 3.64 : 4.24	3.32 : 3.89 | 3.32 : 3.89	3.32 : 3.89 | 3.32 : 3.89	3.15 : 3.70 | 3.15 : 3.70	3.15 : 3.70 | 3.15 : 3.70
Total power input	Cooling : Heating	kW	1.48 : 1.25	1.93 : 1.62	2.75 : 2.36	2.75 : 2.36	3.76 : 3.21	3.76 : 3.21	4.32 : 3.78	4.32 : 3.78
Indoor Unit										
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	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	230V | 240V	230V | 240V	230V | 240V	230V | 240V
Current	Cooling : Heating	A	0.41 : 0.41 | 0.40 : 0.40	0.44 : 0.44 | 0.43 : 0.43	0.67 : 0.67 | 0.65 : 0.65	0.67 : 0.67 | 0.65 : 0.65	0.86 : 0.86 | 0.83 : 0.83	0.86 : 0.86 | 0.83 : 0.83	0.91 : 0.91 | 0.88 : 0.88	0.91 : 0.91 | 0.88 : 0.88
Dimensions	H × W × D	mm	235×1,275 ×690	235 x 1,275 x 690	235 × 1,590 × 690	235 × 1,590 × 690	235 × 1,590 × 690	235 × 1,590 × 690	235 × 1,590 × 690	235 × 1,590 × 690
Net weight		kg	33	33	40	40	40	40	40	40
Air volume	Cooling : Heating	L/s	333 : 333	350 : 350	500 : 500	500 : 500	566 : 566	566 : 566	583 : 583	583 : 583
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	38 / 34 / 30 : 38 / 34 / 30	39 / 35 / 31 : 39 / 35 / 31	42 / 37 / 35 : 42 / 37 / 35	42 / 37 / 35 : 42 / 37 / 35	46 / 40 / 36 : 46 / 40 / 36	46 / 40 / 36 : 46 / 40 / 36	47 / 41 / 37 : 47 / 41 / 37	47 / 41 / 37 : 47 / 41 / 37
Sound power level (H/M/L)	Cooling : Heating	dB(A)	56 / 52 / 48 : 56 / 52 / 48	57 / 53 / 49 : 57 / 53 / 49	60 / 55 / 53 : 60 / 55 / 53	60 / 55 / 53 : 60 / 55 / 53	64 / 58 / 54 : 64 / 58 / 54	64 / 58 / 54 : 64 / 58 / 54	65 / 59 / 55 : 65 / 59 / 55	65 / 59 / 55 : 65 / 59 / 55
Number of fan speeds			3	3	3	3	3	3	3	3
Drain pipe size		mm	VP-20	VP-20	VP-20	VP-20	VP-20	VP-20	VP-20	VP-20
Outdoor Unit										
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz
		V	230V | 240V	230V | 240V	230V | 240V	400V | 415V	230V | 240V	400V | 415V	230V | 240V	400V | 415V
Current	Cooling : Heating	A	6.90 : 5.80 | 6.60 : 5.55	8.95 : 7.55 | 8.60 : 7.25	12.2 : 10.4 | 11.7 : 10.0	4.15 : 3.55 | 4.00 : 3.40	16.9 : 14.3 | 16.2 : 13.7	5.60 : 4.75 | 5.40 : 4.60	19.4 : 16.9 | 18.6 : 16.2	6.45 : 5.60 | 6.20 : 5.40
Dimensions	H × W × D	mm	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	44	44	90	90	94	94	94	94
Air volume	Cooling : Heating	L/s	750 : 750	867 : 750	1,285 : 1,169	1,285 : 1,169	1,436 : 1,302	1,436 : 1,302	1,486 : 1,386	1,486 : 1,386
Sound pressure level	Cooling : Heating	dB(A)	46 (44) : 48 (46)	49 (47) : 49 (47)	52 (50) : 52 (50)	52 (50) : 52 (50)	55 (53) : 55 (53)	55 (53) : 55 (53)	56 (54) : 56 (54)	56 (54) : 56 (54)
Sound power level	Cooling : Heating	dB(A)	65 (63) : 66 (64)	67 (65) : 67 (65)	68 (66) : 67 (65)	68 (66) : 67 (65)	70 (68) : 70 (68)	70 (68) : 70 (68)	71 (69) : 71 (69)	71 (69) : 71 (69)
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	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
Pipe length	min. - max.	m	3 - 40	3 - 40	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50
Elevation difference (OU located lower, OU located higher)		m	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30
Maximum chargeless length		m	30	30	30	30	30	30	30	30
Refrigerant at shipping, Additional gas amount		g	R32, 1,450, 35 (g/m)	R32, 1,450, 35 (g/m)	R32, 2,600, 45 (g/m)	R32, 2,600, 45 (g/m)	R32, 2,980, 45 (g/m)	R32, 2,980, 45 (g/m)	R32, 2,980, 45 (g/m)	R32, 2,980, 45 (g/m)
Operation ranges	Cooling : Heating	℃	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24

Wall Mounted

Providing small, lightweight and low noise level design,
it is ideal for small offices and other commercial applications.
It also has a stylish smooth design with a washable front panel.

ECONAVI ready

S-100PK2E5B

ECONAVI ready

CZ-CENSC1 CZ-RTC5B CZ-RTC4

Self-diagnosing Function | Automatic Fan Operation | Mild dry | Intelligent Auto Swing | Automatic Restart Function | Auto Swing (Auto Flap Control)

Technical focus

- Closed discharge port when not in use
- Lighter and smaller units make installation easy
- Quiet operation
- Smooth and durable design
- Piping outlet in six directions
- Washable front panel
- Air distribution is automatically altered depending on the operational mode of the unit

Closed discharge port

When the unit is turned off, the flap closes completely to prevent entry of dust into the unit and to keep the equipment clean.

Quiet operation

Low operating noise level makes these units ideal for hotels and hospital applications.

Piping outlet in six directions

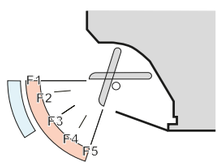
Piping outlet is possible in the six directions of right, right rear, right bottom, left, left rear, left bottom, making installation easier.

Washable front panel

The indoor unit's front panel can be easily cleaned for trouble-free maintenance.

Air distribution is automatically adjusted depending on the operational mode of the unit

Air outlet angle is automatically adjusted for cooling and heating operation.



Heating: F1 to F5
Cooling: F1 to F3

Specifications

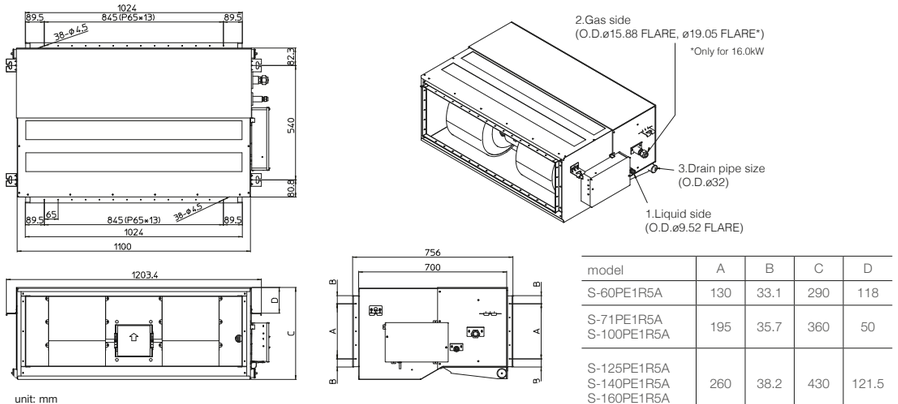
R410A R32 REFRIGERANT

Capacity			9.5kW		9.0kW	
Model Name	Indoor Unit		S-100PK2E5B	S-100PK2E5B	S-100PK2E5B	S-100PK2E5B
	Outdoor Unit		U-100PE1R5A	U-100PE1R8A	U-100PZ2R5	U-100PZ2R8
Cooling capacity : Heating capacity		kW	9.5 (3.3 - 10.5) 9.5 (4.1 - 11.5)	9.5 (3.3 - 10.5) 9.5 (4.1 - 11.5)	9.0 (3.0 - 9.7) 9.0 (3.0 - 10.5)	9.0 (3.0 - 9.7) 9.0 (3.0 - 10.5)
		BTU/h	32,400 (11,300 - 35,800) 32,400 (14,000 - 39,200)	32,400 (11,300 - 35,800) 32,400 (14,000 - 39,200)	30,700 (10,200 - 33,100) 30,700 (10,200 - 35,800)	30,700 (10,200 - 33,100) 30,700 (10,200 - 35,800)
EER : COP		W/W	3.25 : 3.97	3.25 : 3.97	3.47 : 3.93	3.47 : 3.93
Total power input	Cooling : Heating	kW	2.92 : 2.39	2.92 : 2.39	2.59 : 2.29	2.59 : 2.29
Indoor Unit						
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz
		V	230V | 240V	230V | 240V	230V | 240V	230V | 240V
Current	Cooling : Heating	A	0.68 : 0.68 | 0.66 : 0.66	0.68 : 0.68 | 0.66 : 0.66	0.68 : 0.68 | 0.66 : 0.66	0.68 : 0.68 | 0.66 : 0.66
Dimensions	H x W x D	mm	302 x 1,120 x 236	302 x 1,120 x 236	302 x 1,120 x 236	302 x 1,120 x 236
Net weight		kg	14	14	14	14
Air volume	Cooling : Heating	L/s	367 / 308 / 250 : 367 / 308 / 250	367 / 308 / 250 : 367 / 308 / 250	367 / 308 / 250 : 367 / 308 / 250	367 / 308 / 250 : 367 / 308 / 250
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	49 / 45 / 41 : 49 / 45 / 41	49 / 45 / 41 : 49 / 45 / 41	49 / 45 / 41 : 49 / 45 / 41	49 / 45 / 41 : 49 / 45 / 41
Sound power level (H/M/L)	Cooling : Heating	dB(A)	65 / 61 / 57 : 65 / 61 / 57	65 / 61 / 57 : 65 / 61 / 57	65 / 61 / 57 : 65 / 61 / 57	65 / 61 / 57 : 65 / 61 / 57
Number of fan speed			5	5	5	5
Drain pipe size		mm	VP-16	VP-16	VP-16	VP-16
Outdoor Unit						
Power source		Phase/Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz
		V	230V | 240V	400V | 415V	230V | 240V	400V | 415V
Current	Cooling : Heating	A	12.9 : 10.5 | 12.4 : 10.2	4.35 : 3.60 | 4.30 : 3.45	11.5 : 10.1 | 11.0 : 9.7	3.90 : 3.45 | 3.75 : 3.30
Dimensions	H x W x D	mm	1,416 x 940 x 340	1,416 x 940 x 340	996 x 980 x 370	996 x 980 x 370
Net weight		kg	98	98	90	90
Air volume	Cooling : Heating	L/s	1,833 : 1,583	1,833 : 1,583	1,285 : 1,169	1,285 : 1,169
Sound pressure level (Silent mode)	Cooling : Heating	dB(A)	52 (50) : 52 (50)	52 (50) : 52 (50)	52 (50) : 52 (50)	52 (50) : 52 (50)
Sound power level (Silent mode)	Cooling : Heating	dB(A)	69 (67) : 69 (67)	69 (67) : 69 (67)	68 (66) : 67 (65)	68 (66) : 67 (65)
Piping connections	Liquid/Gas	m	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
Pipe length	min. - max.	m	5 - 75	5 - 75	5 - 50	5 - 50
Elevation difference (OU located lower, OU located higher)		m	15, 30	15, 30	15, 30	15, 30
Maximum chargeless length		m	30	30	30	30
Refrigerant at shipping, Additional gas amount		g	R410A, 3,400, 50 (g)	R410A, 3,400, 50 (g)	R32, 2,600, 45 (g/m)	R32, 2,600, 45 (g/m)
Operation ranges	Cooling : Heating	°C	-15 to 46 : -20 to 24	-15 to 46 : -20 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24

Indoor Unit Dimensions

HIGH STATIC PRESSURE DUCTED

Dimensions (6.0kW – 16.0kW)



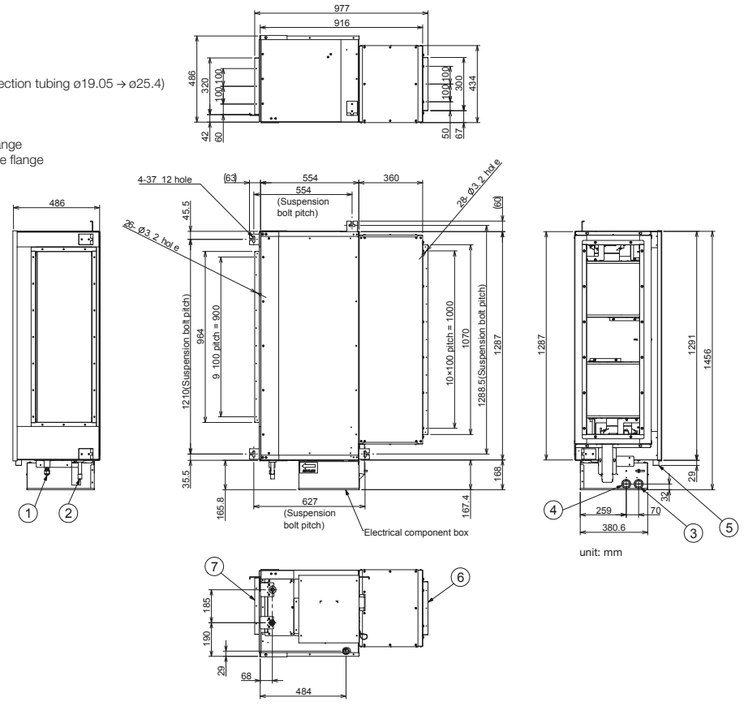
unit: mm

model	A	B	C	D
S-60PE1R5A	130	33.1	290	118
S-71PE1R5A S-100PE1R5A	195	35.7	360	50
S-125PE1R5A S-140PE1R5A S-160PE1R5A	260	38.2	430	121.5

HIGH STATIC PRESSURE SPLITTABLE DUCTED

Dimensions (18.0kW – 22.4kW)

1 Refrigerant liquid tubing (Flare)
Type 180 : ø9.52
Type 200/224 : ø12.7
2 Refrigerant gas tubing (Brazing)
ø19.05
(Type 200/224 (30 - 50m) : Connection tubing ø19.05 → ø25.4)
3 Power supply port
4 Communication port
5 Drain port 25A
6 Air intake duct connecting side flange
7 Air discharge duct connecting side flange

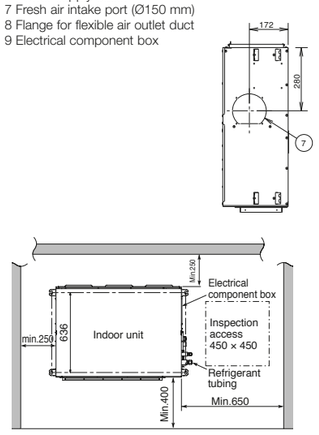


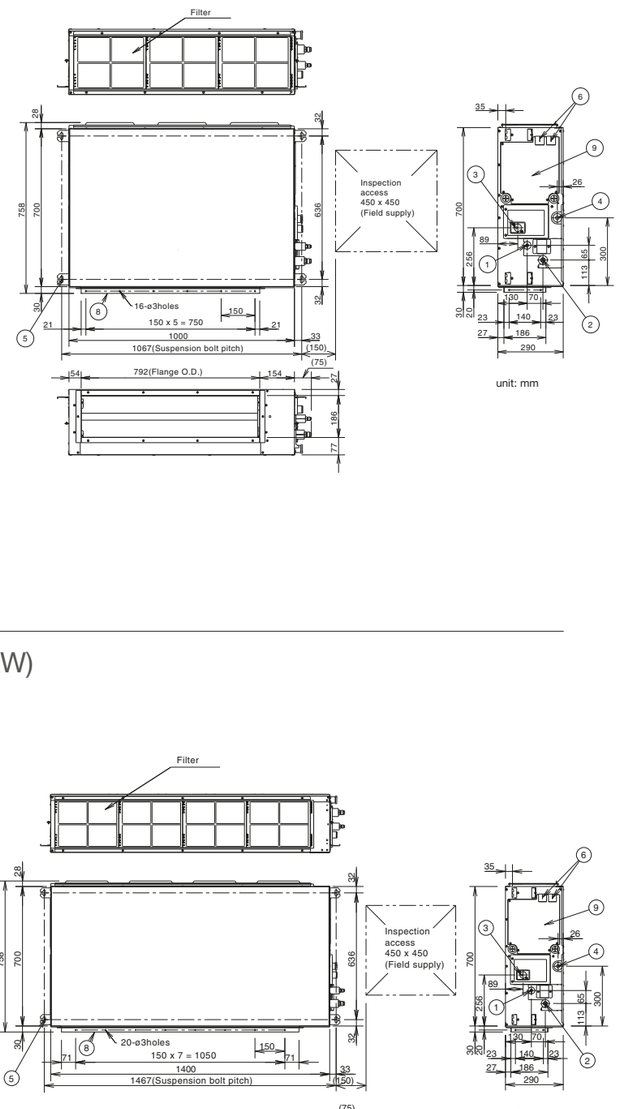
unit: mm

MID STATIC PRESSURE DUCTED

Dimensions (6.0kW – 7.1kW)

1 Refrigerant piping joint (liquid tube) Ø9.52 Flare
2 Refrigerant piping joint (gas tube) Ø15.88 Flare
3 Upper drain port VP25 (O.D. Ø32 mm)
ℓ 200 flexible hose supplied
4 Bottom drain port VP25 (O.D. Ø32 mm)
5 Suspension lug (4-12 × 30 mm)
6 Power supply outlet
7 Fresh air intake port (Ø150 mm)
8 Flange for flexible air outlet duct
9 Electrical component box

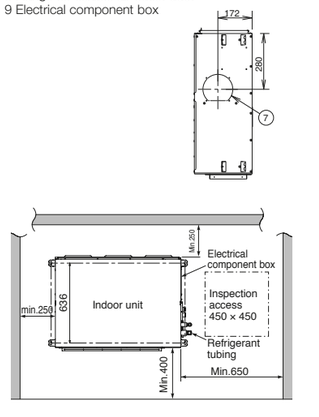




unit: mm

Dimensions (10.0kW – 14.0kW)

1 Refrigerant piping joint (liquid tube) Ø9.52 Flare
2 Refrigerant piping joint (gas tube) Ø15.88 Flare
3 Upper drain port VP25 (O.D. Ø32 mm)
ℓ 200 flexible hose supplied
4 Bottom drain port VP25 (O.D. Ø32 mm)
5 Suspension lug (4-12 × 30 mm)
6 Power supply outlet
7 Fresh air intake port (Ø150 mm)
8 Flange for flexible air outlet duct
9 Electrical component box

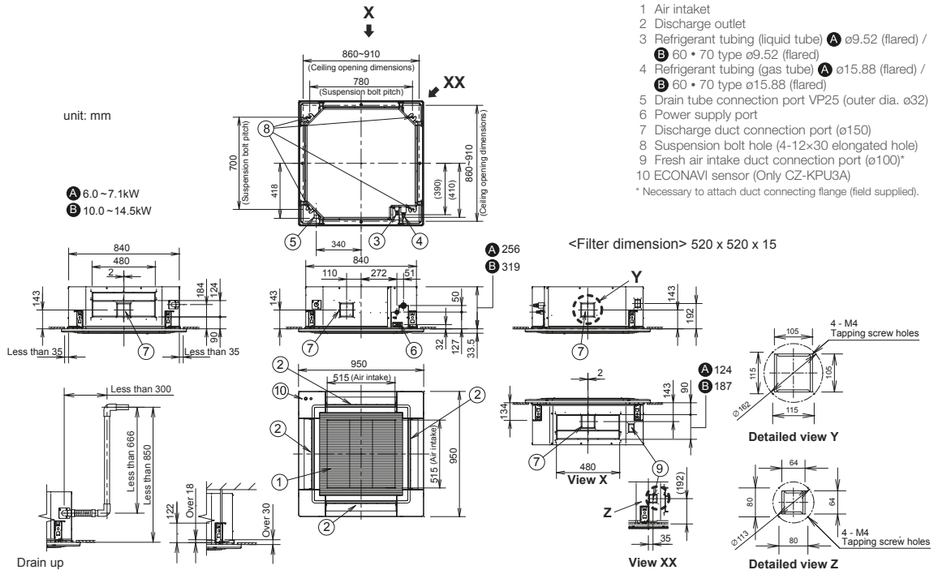


unit: mm

Indoor Unit Dimensions

4-WAY CASSETTE

Dimensions (6.0kW – 14.0kW)



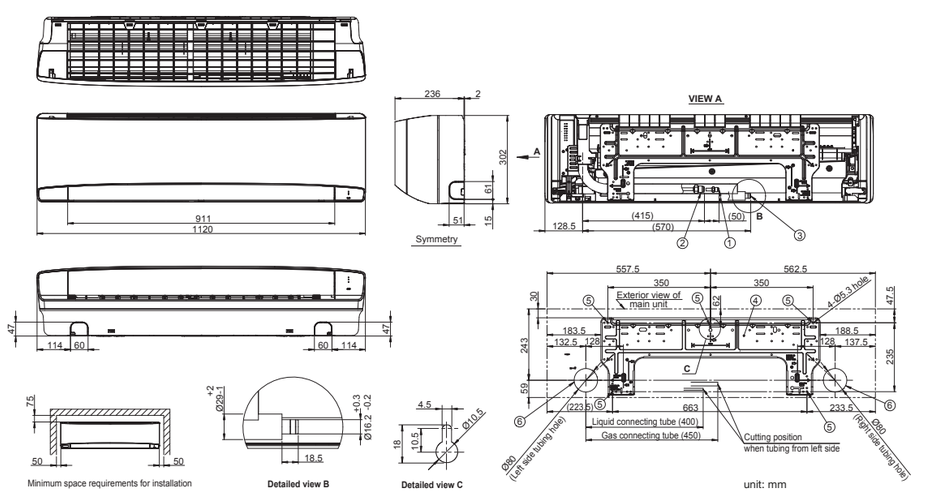
1 Air intaket
2 Discharge outlet
3 Refrigerant tubing (liquid tube) Ⓐ ø9.52 (flared) / Ⓑ 60 • 70 type ø9.52 (flared)
4 Refrigerant tubing (gas tube) Ⓐ ø15.88 (flared) / Ⓑ 60 • 70 type ø15.88 (flared)
5 Drain tube connection port VP25 (outer dia. ø32)
6 Power supply port
7 Discharge duct connection port (ø150)
8 Suspension bolt hole (4-12×30 elongated hole)
9 Fresh air intake duct connection port (ø100)*
10 ECONAVI sensor (Only CZ-KPU3A)

* Necessary to attach duct connecting flange (field supplied).

* Adjust the suspension bolt length so that the gap from the lower ceiling surface becomes 30 mm or more (18 mm or more from the lower surface of the body) as shown in the figure. When the suspension bolt length is long, it hits the ceiling panel and installation is not possible.

WALL MOUNTED

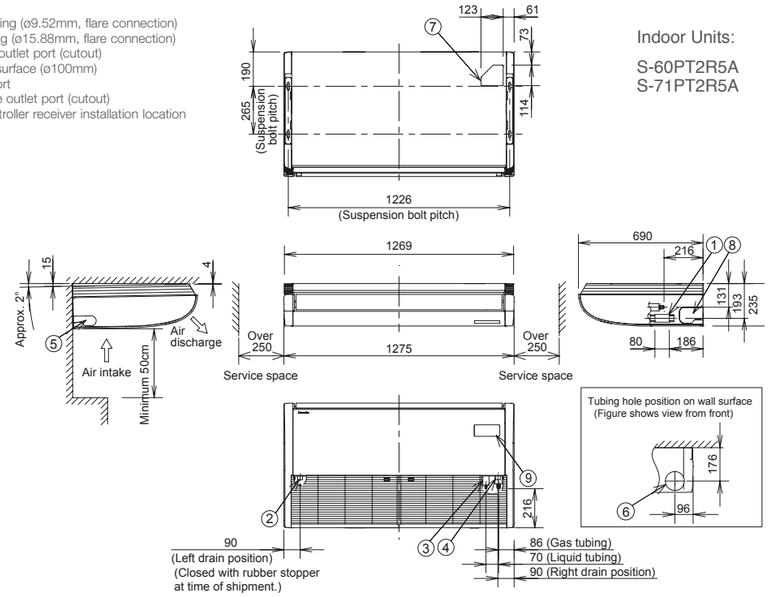
Dimensions (10.0kW)

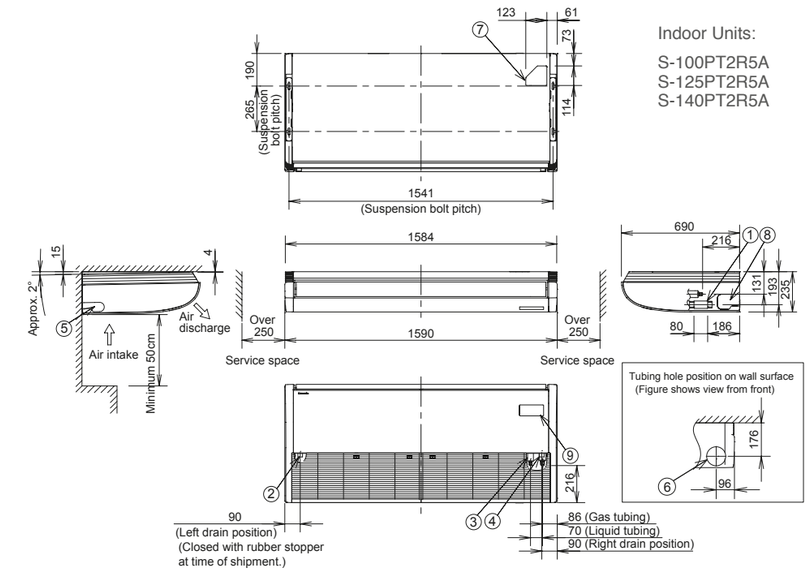


CEILING

Dimensions (6.0kW – 14.0kW)

1 Drain port VP20 (inside diameter ø26mm, drain hose supplied)
2 Left drain position
3 Refrigerant liquid tubing (ø9.52mm, flare connection)
4 Refrigerant gas tubing (ø15.88mm, flare connection)
5 Left side drain hose outlet port (cutout)
6 Tubing hole on wall surface (ø100mm)
7 Upper side tubing port
8 Right side drain hose outlet port (cutout)
9 Wireless remote controller receiver installation location





Products for Small Sized Project

Product line-up
suitable for small sized project
such as residential case.

R410A INVERTER DRED DEMAND RESPONSE ENABLING DEVICE ready

Ultra Slim Ducted

CS-E9SD3RW
CS-E12SD3RW
CS-E18SD3RW

Bulkhead Ducted

CS-E9QD3RW
CS-E12QD3RW
CS-E18QD3RW

4-Way Mini Cassette

CS-E9SB4RW
CS-E12QB4RW
CS-E18QB4RW

Panel
CZ-BT20E

CU-E9SD3R/CU-E9QD3R/CU-E9SB4R
CU-E12SD3R/CU-E12QD3R/CU-E12QB4R

CU-E18SD3R/CU-E18QD3R/CU-E18QB4R

CZ-RD52CP

Ultra Slim Ducted

Technical focus

- Market-leading Energy Efficiency
- Only 200mm High
- Rear or Bottom Return Air
- Built-in Drain Pump (500mm lift*)
- -15°C to +46°C Operating Range

* Refer to Technical Documents for more details

Bulkhead Ducted

Technical focus

- Market-leading Energy Efficiency
- Only 370mm Deep
- Easy Installation
- Built-in Drain Pump (200mm lift*)
- -15°C to +46°C Operating Range

* Refer to Technical Documents for more details

4-Way Mini Cassette

Technical focus

- Market-leading Energy Efficiency
- Compact Design (260mm High)
- Easy Installation
- Built-in Drain Pump (600mm lift*)
- -15°C to +46°C Operating Range

* Refer to Technical Documents for more details

Specifications

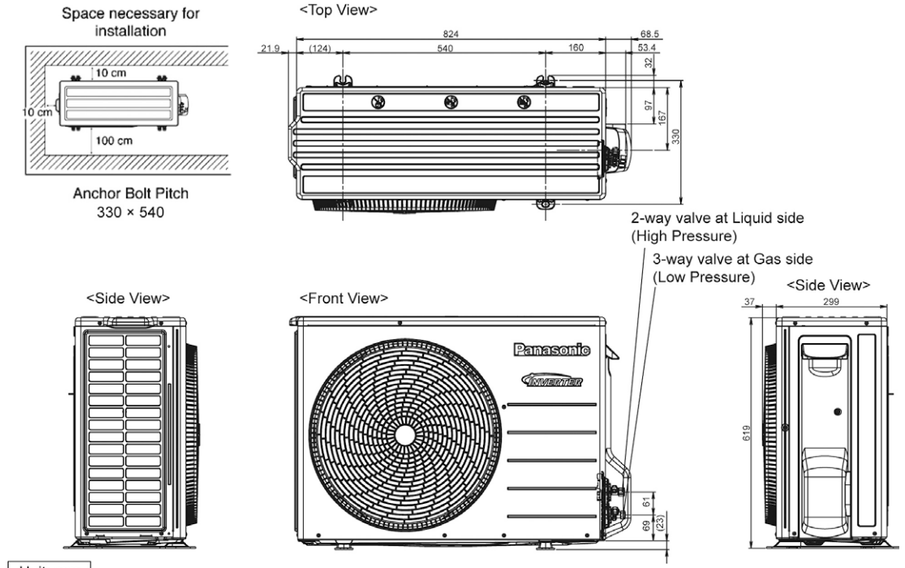
			Ultra Slim Ducted			Bulkhead Ducted			Mini Cassette		
Capacity			**2.60KW**	**3.70KW**	**5.00KW**	**2.50KW**	**3.40KW**	**5.00KW**	**2.50KW**	**3.40KW**	**4.80KW**
Model Name	Indoor Unit		**CS-E9SD3RW**	**CS-E12SD3RW**	**CS-E18SD3RW**	**CS-E9QD3RW**	**CS-E12QD3RW**	**CS-E18QD3RW**	**CS-E9SB4RW**	**CS-E12QB4RW**	**CS-E18QB4RW**
	Outdoor Unit		**CU-E9SD3R**	**CU-E12SD3R**	**CU-E18SD3R**	**CU-E9QD3R**	**CU-E12QD3R**	**CU-E18QD3R**	**CU-E9SB4R**	**CU-E12QB4R**	**CU-E18QB4R**
Cooling capacity : Heating capacity		kW	2.6 (0.85 - 3.20) : 3.30 (0.85 - 4.50)	3.70 (0.85 - 4.00) : 4.20 (0.85 - 5.10)	5.00 (0.90 - 5.70) : 6.10 (0.90 - 7.10)	2.50 (0.85 - 3.10) : 3.20 (0.85 - 4.40)	3.40 (0.85 - 4.00) : 4.00 (0.85 - 5.10)	5.00 (0.90 - 5.70) : 6.10 (0.90 - 7.10)	2.50 (0.85 - 3.20) : 3.20 (0.85 - 4.70)	3.40 (0.85 - 4.00) : 4.00 (0.85 - 5.40)	4.80 (0.90 - 5.70) : 5.00 (0.90 - 7.10)
		BTU/h	8,870 (2,900 - 10,900) : 11,300 (2,900 -15,300)	12,600 (2,900 - 13,600) : 14,300 (2,900 -17,400)	17,100 (3,070 - 19,400) : 20,800 (3,070 -24,200)	8,530 (2,900 - 10,600) : 10,900 (2,900 - 15,000)	11,600 (2,900 - 13,600) : 13,600 (2,900 - 17,400)	17,100 (3,070 - 19,400) : 20,800 (3,070 - 24,200)	8,530 (2,900 - 10,900) : 10,900 (2,900 - 16,000)	11,600 (2,900 - 13,600) : 13,600 (2,900 - 18,400)	16,400(3,070 - 19,400) : 17,100 (3,070 - 20,400)
EER : COP		W/W	4.19 : 3.93	3.59 : 3.82	3.33 : 3.59	3.85 : 3.64	3.58 : 3.39	3.25 : 3.30	4.55 : 4.10	3.86 : 3.81	3.31 : 3.31
Total power input	Cooling : Heating	kW	0.62 (0.23 - 0.97) : 0.84 (0.22 - 1.36)	1.03 (0.23 - 1.15) : 1.10 (0.22 - 1.50)	1.50 (0.29 - 1.8) : 1.70 (0.33 - 2.05)	0.65 (0.23 - 0.88) : 0.88 (0.22 - 1.36)	0.95 (0.23 - 1.18) : 1.18 (0.22 - 1.6)	1.54 (0.29 - 1.84) : 1.85 (0.33 - 2.20)	0.55 (0.22 - 0.9) : 0.78 (0.21 - 1.36)	0.88 (0.22 - 1.18) : 1.05 (0.21 - 1.68)	1.45 0.29 - 1.93) : 1.51 (0.33 - 2.45)
Indoor Unit											
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz
		V	240V	240V	240V	240V	240V	240V	240V	240V	240V
Current	Cooling : Heating	A	2.8 : 3.8	4.4 : 4.7	6.5 : 7.4	3.0 : 3.9	4.1 : 5.1	6.6 : 7.9	2.5 : 3.5	3.9 : 4.6	6.2 : 6.5
Dimensions	H × W × D	mm	200 x 750 x 640	200 x 750 x 640	200 x 750 x 640	235 x 750 x 370	235 x 750 x 370	285 x 750 x 370	260 x 575 x 575	260 x 575 x 575	260 x 575 x 575
Net weight		kg	19	19	19	17	17	18	18	18	18
Air volume	Cooling : Heating	L/s	231 : 231	241 : 241	293 : 293	250 : 259	256 : 263	286 : 294	175 : 182	175 : 195	195 : 208
External static pressure		Pa	0 - 78	0 - 84	0 - 114	0 - 124	0 - 140	0 - 147	–	–	–
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	32 / 27 / 24 : 34 / 28 / 25	33 / 27 / 24 : 35 / 28 / 25	41 / 30 / 27 : 41 / 32 / 29	32 / 27 / 24 : 34 / 28 / 25	33 / 27 / 24 : 35 / 28 / 25	42 / 30 / 27 : 42 / 32 / 29	34 / 26 / 23 : 35 / 28 / 25	35 / 26 / 23 : 37 / 28 / 25	38 / 28 / 25 : 39 / 29 / 26
Sound power level (H/M/L)	Cooling : Heating	dB(A)	48 / 43 / 40 : 50 / 44 / 41	49 / 43 / 40 : 51 / 44 / 41	57 / 46 / 43 : 57 / 48 / 45	48 / 43 / 40 : 50 / 44 / 41	49 / 43 / 40 : 51 / 44 / 41	48 / 46 / 43 : 48 / 48 / 45	50 / 42 / 39 : 51 / 44 / 41	51 / 42 / 39 : 53 / 44 / 41	54 / 44 / 41 : 55 / 45 / 42
Outdoor Unit											
Power source		Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz
		V	240V	240V	240V	240V	240V	240V	240V	240V	240V
Dimensions	H × W × D	mm	619 x 824 x299	619 x 824 x299	795 x 875 x 320	619 x 824 x299	619 x 824 x299	795 x 875 x 320	619 x 824 x 299	619 x 824 x 299	795 x 875 x 320
Net weight		kg	33	33	52	33	33	52	33	33	52
Piping connections	Liquid / Gas	m	Ø6.35 (1/4) / Ø9.52 (3/8)	Ø6.35 (1/4) / Ø12.70 (1/2)	Ø6.35 (1/4) / Ø12.70 (1/2)	Ø6.35 (1/4) / Ø9.52 (3/8)	Ø6.35 (1/4) / Ø12.70 (1/2)	Ø6.35 (1/4) / Ø12.70 (1/2)	Ø6.35 (1/4) / Ø9.52 (3/8)	Ø6.35 (1/4) / Ø12.70 (1/2)	Ø6.35 (1/4) / Ø12.70 (1/2)
Pipe length	min. - max.	m	3-15	3-15	3-30	3 - 15	3 - 15	3 - 30	3-15	3-15	3-30
Elevation difference (OU located lower, OU located higher)		m	15	15	20	15	15	20	15	15	20
Operation ranges	Cooling : Heating	℃	5 - 46 : -15 - 24	5 - 46 : -15 - 24	5 - 46 : -15 - 24	5 - 46 : -15 - 24	5 - 46 : -15 - 24	5 - 46 : -15 - 24	5 - 46 : -15 - 24	5 - 46 : -15 - 24	5 - 46 : -15 - 24

Tubing size is Ø12.70 (1/2) / Ø22.22 (7/8) when the length is over 90m. Please refer to technical documents for more details.

Small Sized Project Dimensions

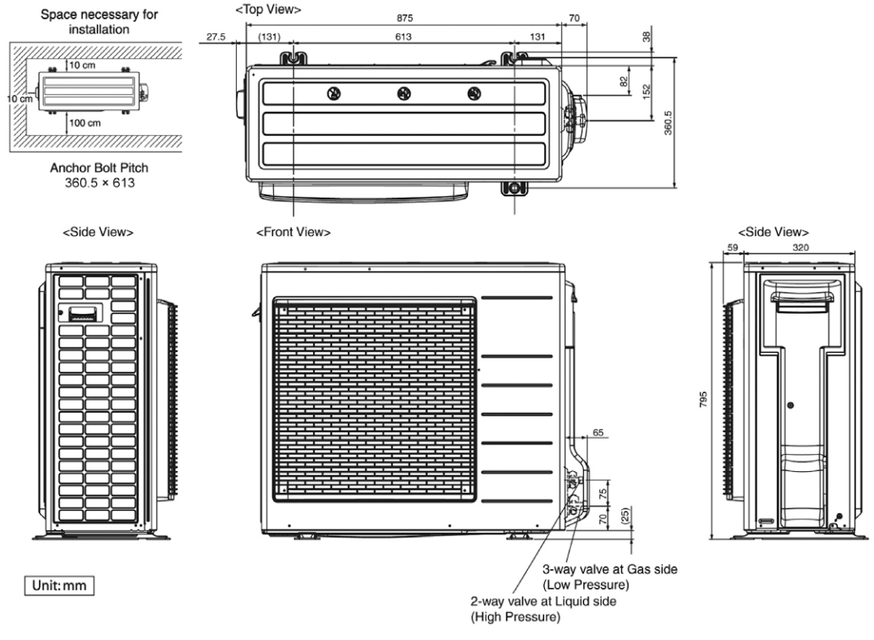
OUTDOOR UNIT

Dimensions (2.5kW – 3.7kW)



Unit: mm

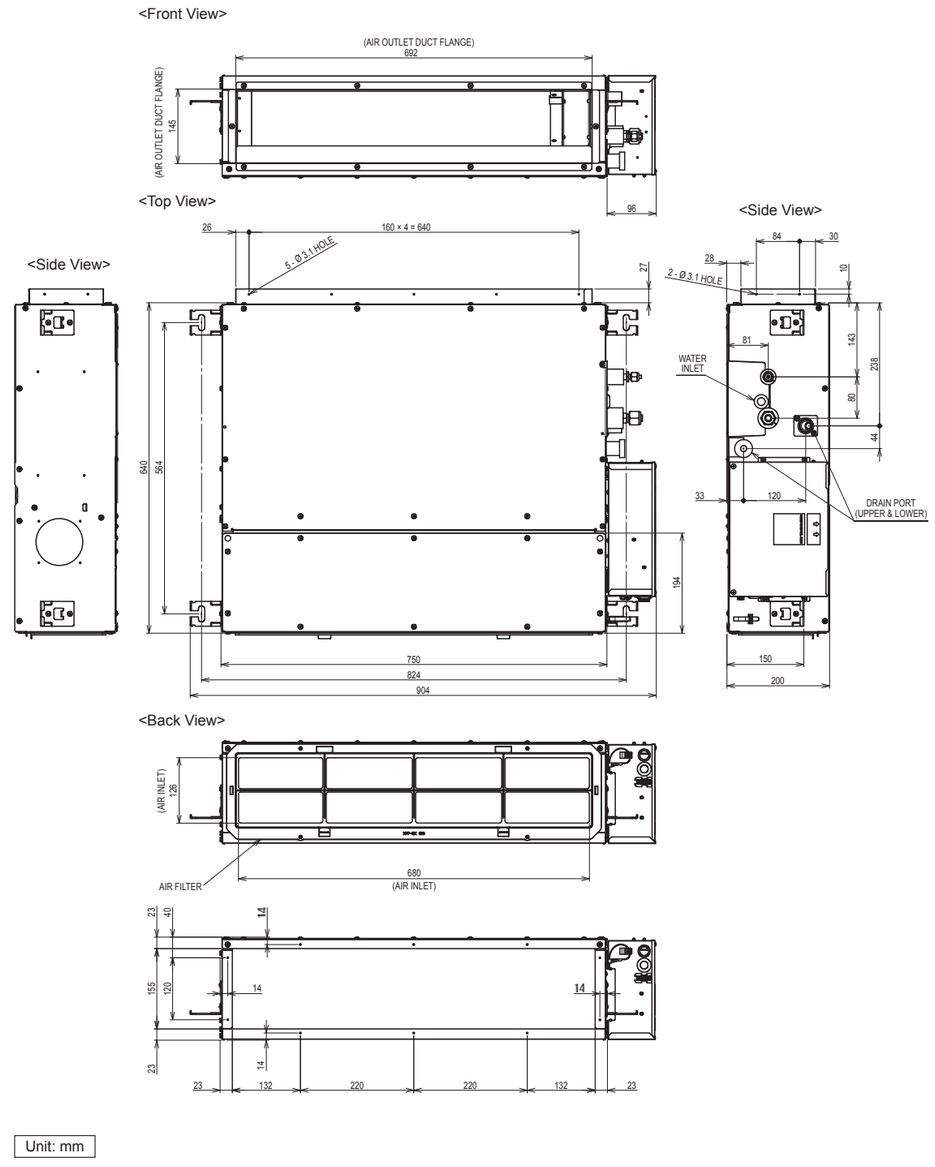
Dimensions (4.8kW – 5.0kW)



Unit: mm

ULTRA SLIM DUCTED

Dimensions (2.5kW – 5.0kW)

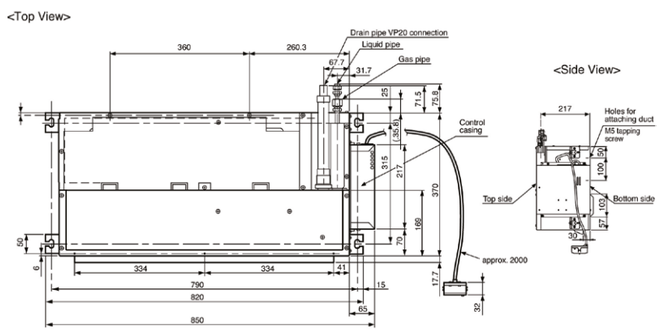


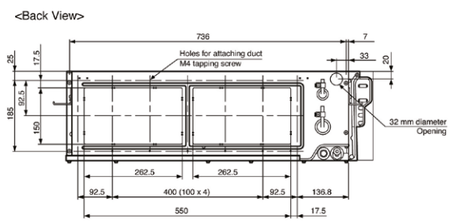
Unit: mm

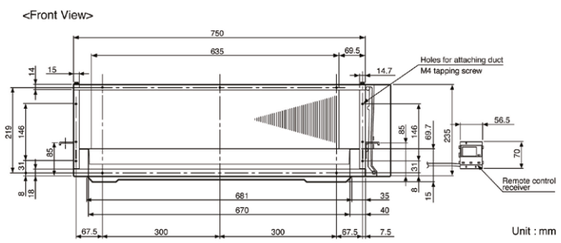
Small Sized Project Dimensions

BULKHEAD DUCTED

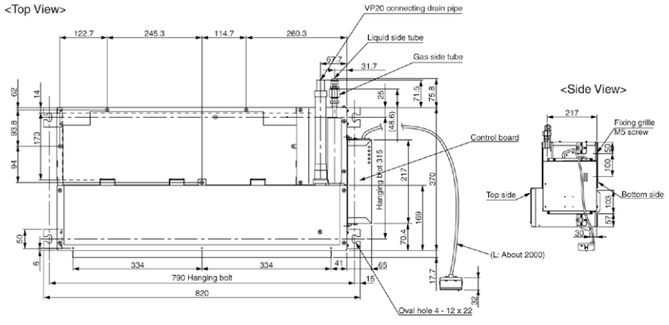
Dimensions (2.5kW – 3.4kW)

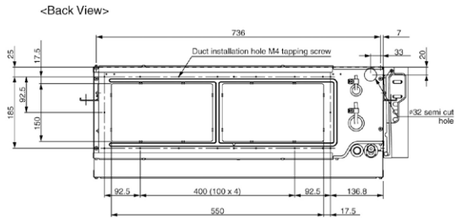


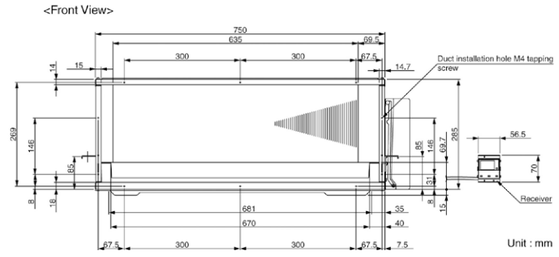




Dimensions (5.0kW)

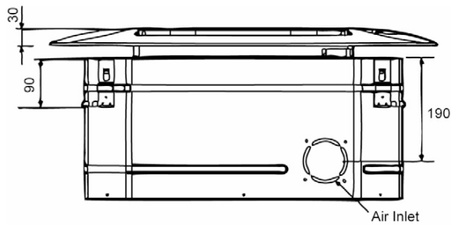


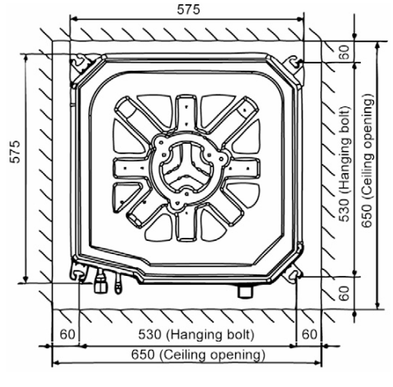


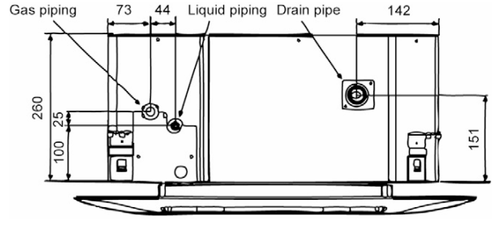


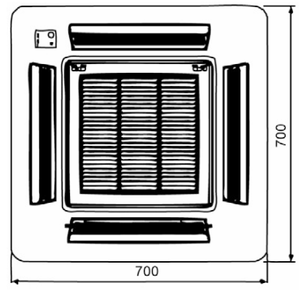
4-WAY MINI CASSETTE

Dimensions (2.5kW – 5.0kW)









Controllers

A wide variety of control options to meet the requirements of different applications.

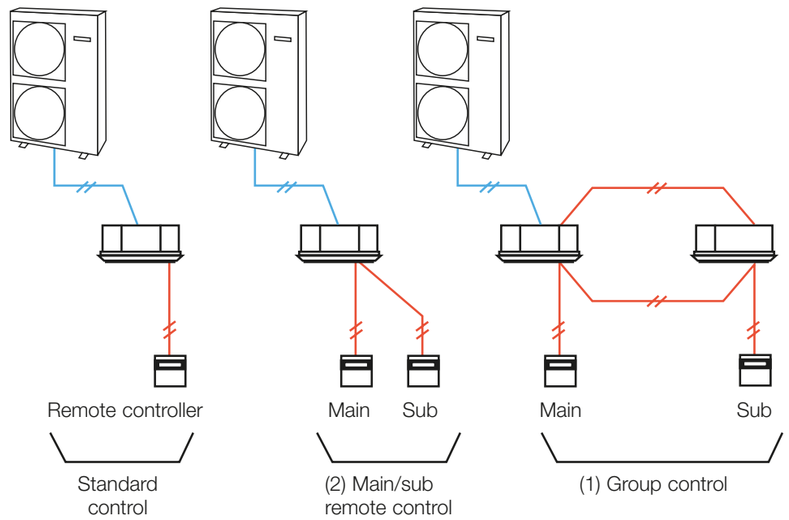
OPERATION SYSTEM	INDIVIDUAL CONTROL SYSTEMS				CENTRALISED CONTROL SYSTEMS				
Requirements	High-spec operation	Normal operation	Operation from anywhere in the room		Normal operation	Operation with various function from centre station	Only ON/OFF operation from centre station	Simplified load distribution ratio (LDR) for each tenant Touch screen panel	Connection with 3rd Party Controller
External appearance	NEW 						NEW 		Seri-Para I/O unit for outdoor unit  CZ-CAPDC2
Type, model name	Deluxe Wired Remote Controller	Timer Remote Controller (Wired)	Wireless Remote Controller		Wired Remote Controller	System Controller	ON/OFF Controller	Intelligent Controller	Interface adaptor NEW  CZ-CAPC3
	CZ-RTC5B	CZ-RTC4	CZ-RWSU3 CZ-RWST3N CZ-RWSK2 + CZ-RWSC3		CZ-RD52CP	CZ-64ESMC3	CZ-ANC3	CZ-256ESMC3 (CZ-CFUNC2)	
Built-in thermostat	●	●	●		—	—	—	—	Seri-Para I/O unit for each indoor unit  CZ-CAPBC2
ECONAVI on/off control	●	●	—		—	—	—	—	
Number of indoor units which can be controlled	1 group, 8 units	1 group, 8 units	1 group, 8 units		1	64 groups, max. 64 units	16 groups, max. 64 units	64 units x 4 links, max. 256 units	
Use limitations	· Up to 2 controllers can be connected per group (When using ECONAVI sensor, only one remote controller is possible to connect at indoor unit)	· Up to 2 controllers can be connected per group. (When using ECONAVI sensor, only one remote controller is possible to connect at indoor unit)	· Up to 2 controllers can be connected per group.		· Only 1 controller for 1 indoor unit.	· Up to 10 controllers, can be connected to one system. · Main unit/sub unit (1 main unit + 1 sub unit) connection is possible. · Use without remote controller is possible.	· Up to 8 controllers (4 main units + 4 sub units) can be connected to one system. · Use without remote controller is impossible.	· A communication adaptor (CZ-CFUNC2) must be installed for three or more links.	Communication Adaptor  CZ-CFUNC2
Function ON/OFF	●	●	●		●	●	●	●	LonWorks Interface  CZ-CLNC2
Mode setting	●	●	●		●	●	—	●	
Fan speed setting	●	●	●		●	●	—	●	
Temperature setting	●	●	●		●	●	—	●	
Air flow direction	●	●	●		●	●[1]	—	●[1]	
Permit/Prohibit switching	●	—	—		—	●	●	●	
Weekly program	●	●	—		—	●	—	●	

1. Setting is not possible when a remote control unit is present. (Use the remote controller for setting.)
All specifications subject to change without notice.

Individual Control Systems

Control contents	Part name, model No.	Quantity
Standard Control • Control of the various operations of the indoor unit by wired or wireless remote controller. • Cooling or heating mode of the outdoor unit is decided by the first priority of the remote controller. • Switching between remote controller sensor and body sensor is possible.	Wired remoted controller CZ-RTC4 / CZ-RTC5B Wireless remote controller CZ-RWSU3 / CZ-RWST3N / CZ-RWSK2 + CZ-RWSC3	1 unit each
(1) Group control • Batch remote control on all indoor units. • Operation of all indoor cells in the same mode. • Up to 8 units can be connected. • The sensor is the body sensor, and thermostat ON/OFF setting in regard to the temperature set by the remote controller is possible for each indoor unit.	Wired remoted controller CZ-RTC4 / CZ-RTC5B Wireless remote controller CZ-RWSU3 / CZ-RWST3N / CZ-RWSK2 + CZ-RWSC3	As required
(2) Main/sub remote control • Max 2 remote controllers per indoor unit. (Main remote controller can be connected) • The button pressed last has priority. • Timer setting is possible even with the sub remote controller. When using ECONAVI sensor, only one remote controller is possible to connect at indoor unit.	Main or sub Wired remoted controller CZ-RTC4 / CZ-RTC5B Wireless remote controller CZ-RWSU3 / CZ-RWST3N / CZ-RWSK2 + CZ-RWSC3	As required

SYSTEM EXAMPLE



Deluxe wired remote controller (CZ-RTC5B)

Dimensions
H 120 x W 120 x D 16 mm

Energy Saving
- ECONAVI on/ off*
- Temperature Auto Return
- Temperature Setting Range
- Auto Shutoff
- Schedule peak cut
- Repeat off timer

Backup control by using CZ-RTC5B Group wiring of 2 systems of PACi can do auto individual control
- Rotation operation
- Backup operation
- Support operation

Basic Operation
- Individual Louver Control (Lock individual flap for 4-way cassette)
- ON/ OFF timer
- Weekly Timer
- Filter information*
- Outing function
- Quiet operation mode*
- Power consumption monitor*
- Energy saving*
- Initial settings
- Ventilation

Maintenance Function
- Outdoor unit error data
- Service Contact address
- RC setting mode
- Test Run
- Sensor Information*
- Service check
- Simple/ Detailed Settings
- Auto address

* Subject to the connected model

Timer remote controller (CZ-RTC4)

Dimensions
H 120 x W 120 x D 20 mm

Basic remote controller ON/OFF
- Operation mode changeover (Cooling, Heating, Dry, Auto, Fan).
- Temperature setting (Cooling/Dry: 18-30 deg Heating: 16-30 deg).
- Fan speed setting H/ M/ L and Auto.
- Air flow direction adjustment.
- ECONAVI on/ off*

Time Function 24 hours real time clock
- Day of the week indicator.

Weekly Programme Function
- A maximum of 6 settings/day and 42 settings/week can be programmed.

Outing Function
- This function can prevent the room temperature from dropping or rising when the occupants are out for a long time.

Sleeping Function
- This function controls the room temperature for comfortable sleeping.

Max. 8 indoor units can be controlled from one remote controller

Remote control by main remote controller and sub controller is possible

Max. 2 remote controllers (main remote controller and sub controller) can be installed for one indoor unit.

* Depending on the model, some menus cannot be used.

Wireless remote controller

For 4-Way cassette type
CZ-RWSU3

For all Ducted types
CZ-RWSC3
+CZ-RWSK2

For under ceiling type
CZ-RWST3N

Remote control by main remote controller and sub controller is possible

- Max. 2 remote controllers (main remote controller and sub controller) can be installed for one indoor unit.

When CZ-RWSC3+CZ-RWSK2 is used, wireless control becomes possible for all indoor units

- When a separate receiver is set up in a different room, control from that room also becomes possible.
- Automatic operation by means of the emergency operation button is possible even when the remote controller has been lost or the batteries have been exhausted.

In addition, there are other functions such as temperature setting, operation switching, wind direction/fan speed setting, etc

Ventilation independent operation is possible

When commercial ventilation fans or heat-exchange ventilation fans have been installed, they can be operated with this remote control (interlocked operation with the indoor unit or independent ventilation ON/OFF).

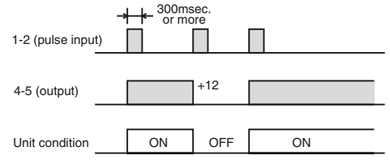
Wired remote controller (CZ-RD52CP)

T10 Terminal for External Control (Digital Connection)

Connecting an indoor unit to an external device is easy.
The T10 Terminal featured in the electronic circuit board of all indoor units enables digital connection to external devices.

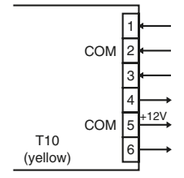
1. T10 Terminal Specification (T10:CN061 at indoor unit PCB)

- Control items: 1. Start/stop input
  2. Remote controller prohibit input
  3. Start signal output
  4. Alarm signal output



NOTE: The wire length from indoor unit to the Relay must be within 2.0m.
Pulse signal changeable to static with JP cutting. (Refer to JP001)

- Example of wiring



Condition

1. 1-2 (Pulse input): Unit ON/OFF condition switching with a pulse signal. (1 pulse signal: shortage status more than 300msec.or more)
2. 2-3 (Static input): Open/ Operation with Remote is permitted.(Normal condition) Close/ Remote controller is prohibited.
3. 4-5 (Static output): 12V output during the unit ON. / No output at OFF.
4. 5-6 (Static output): 12V output when some errors occur / No output at normal.

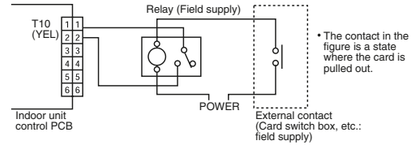
2. Usage Example

Forced OFF control

- Condition

1-2 (Static input): Close/ Operation with Remote is permitted. (Normal condition) Open/ Unit is forcibly OFF and Remote controller operation is prohibited.

- Example of wiring



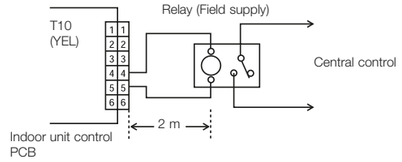
NOTE: The wire length from indoor unit to the Relay must be within 2.0m

Operation ON/OFF signal output

- Condition

4-5 (Static output): 12V output during the unit ON / No output at OFF

- Example of wiring



NOTE: The wire length from indoor unit to the Relay must be within 2.0m
Pulse signal changeable to static with JP cutting. (Refer to JP001)

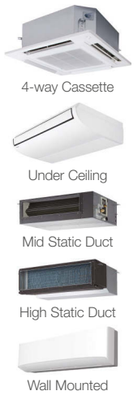
ECONAVI

Reducing inefficient air conditioning

Providing outstanding energy-saving performance, Panasonic's large capacity air conditioners can be connected to ECONAVI to detect when energy is being wasted.
ECONAVI senses the presence or absence of people and the level of activity in each area of a room. When unnecessary heating or cooling is detected, indoor units are individually controlled to match room conditions for energy-saving operation.

ECONAVI Sensor
CZ-SENSC1

Applicable to all 5-types of indoor units*
* Except 18.0 - 22.4kW models



How 2 sensors work for human detection

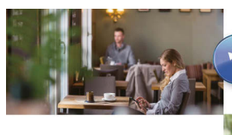
Detection of the level of activity enables optimum power saving

Presence or absence of people and the level of activity in the room are detected in real time. Set temperature is automatically adjusted to optimise the power consumption.

Sensors are remotely located to maximise the energy-saving effect

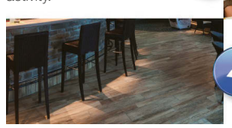
When sensors are built into the indoor unit, pillars, walls, cabinets and other fittings can obstruct the sensors, reducing the area of detection and lowering the energy-saving effect. Panasonic sensors can be located any where in the room which enables the optimum layout for sensors in any location.

Case study at coffee shop



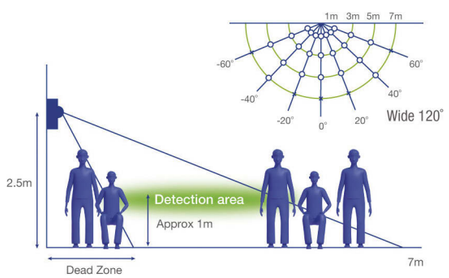
In the morning
Reduced cooling when there are fewer people.

In the afternoon
Thorough cooling when there is a high level of activity.



At night
Automatic Thermo Off depending on conditions at the end of the day.

Wide detection area

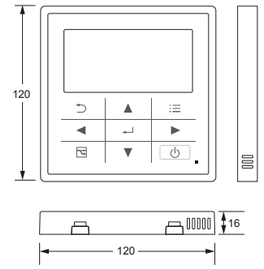


A sensor is remotely set to maximise the detection area.

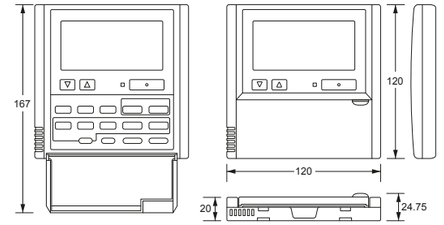
Installation flexibilitydy for indoor unit layout changes.

Remote Controller External Dimensions

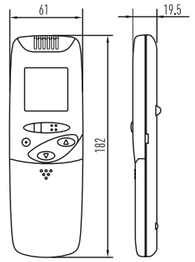
DELUXE WIRED
REMOTE CONTROLLER
(CZ-RTC5B)



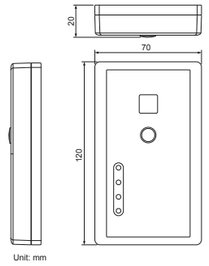
TIMER REMOTE
CONTROLLER
(CZ-RTC4)



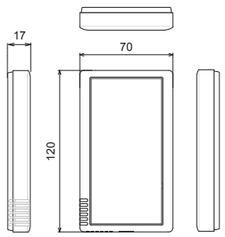
WIRELESS REMOTE
CONTROLLER



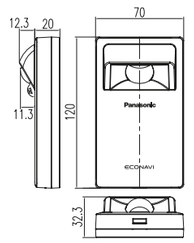
SEPARATE RECEIVER FOR
WIRELESS REMOTE CONTROLLER
(CZ-RWSC3)



REMOTE SENSOR
(CZ-CSRC3)

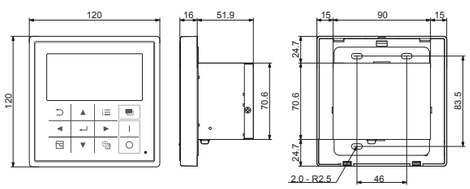


ECONAVI SENSOR
(CZ-CENSC1)



SYSTEM CONTROLLER
(CZ-64ESMC3)

System Controller



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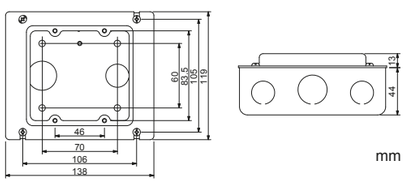
Switch Box



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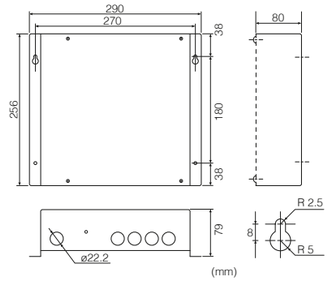
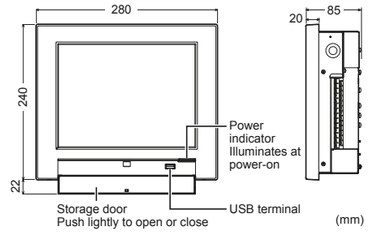
Remote Controller External Dimensions

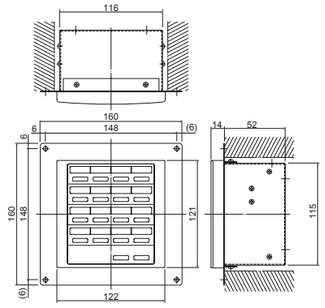
COMMUNICATION ADAPTOR
(CZ-CFUNC2)



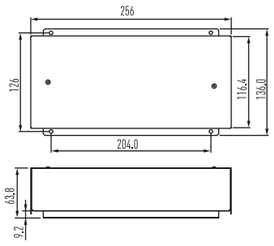
INTELLIGENT CONTROLLER
(CZ-256ESMC3)



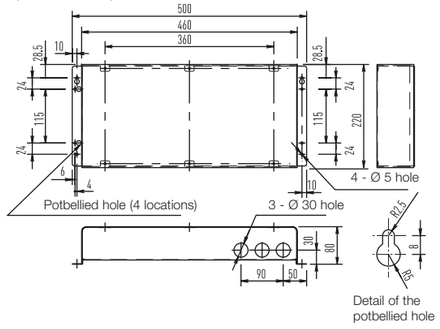
ON/OFF CONTROLLER
(CZ-ANC3)



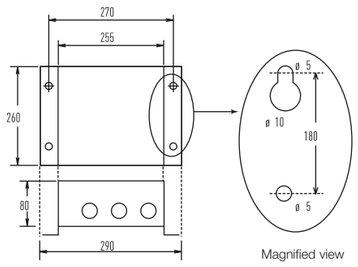
SERI-PARA I/O UNIT FOR EACH INDOOR UNIT
(CZ-CAPBC2)



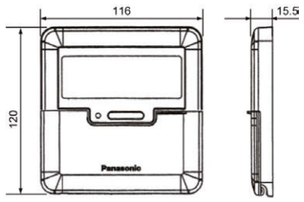
LONWORKS INTERFACE
(CZ-CLNC2)



SERI-PARA I /O UNIT FOR OUTDOOR UNIT
(CZ-CAPDC2)



WIRED REMOTE CONTROLLER
FOR RESIDENTIAL MODEL
(CZ-RD52CP)



MEMO