Panasonic

NEW FREE MULTI SYSTEM Z R32 GAS

Up to 5 indoor units with a single outdoor unit

R32
NEW REFRIGERANT GAS
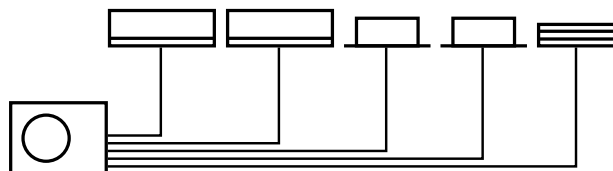
heating & cooling solutions

FOR MAXIMUM FLEXIBILITY AND CUSTOMISATION THE FREE MULTI HAS THE ANSWER
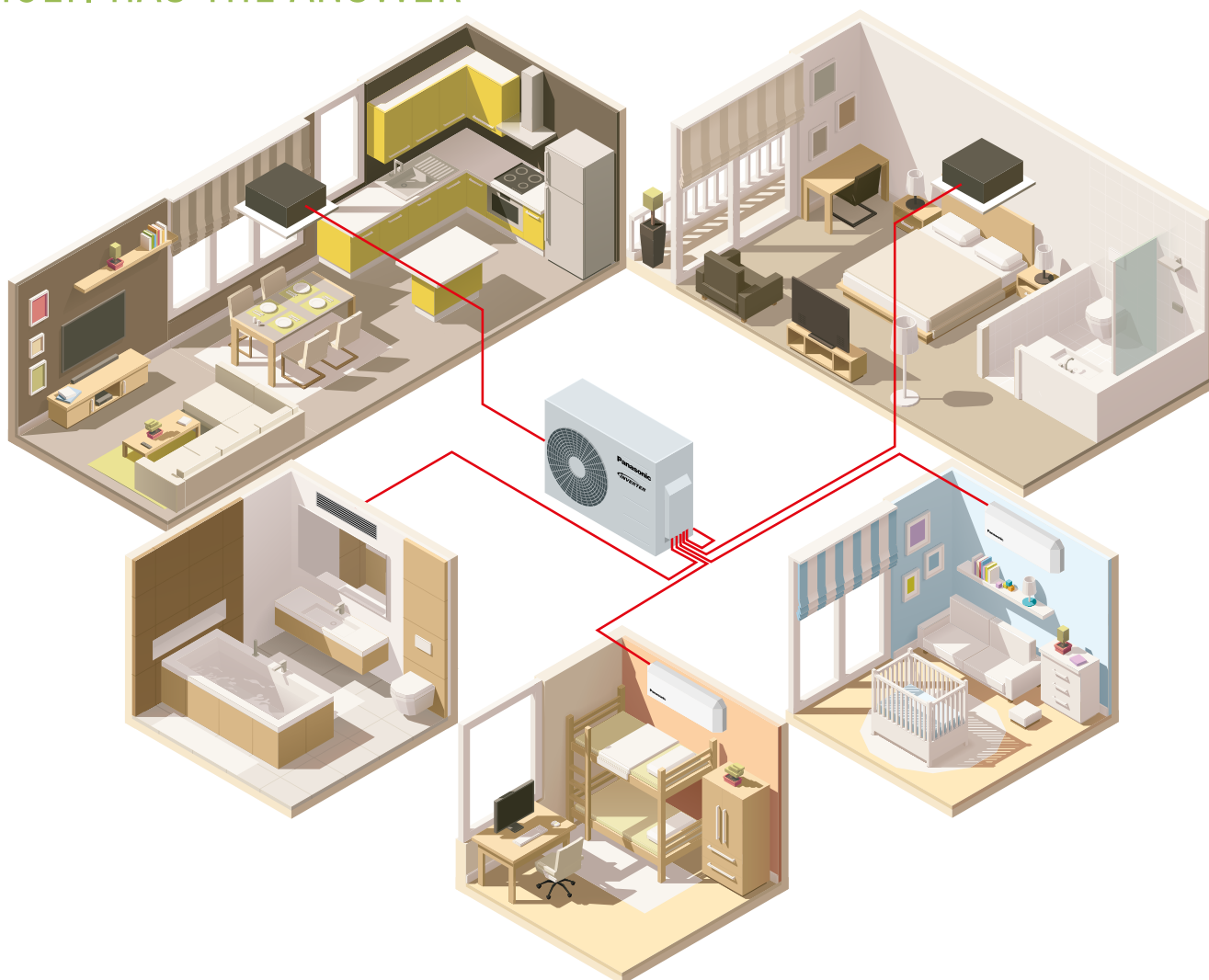
Panasonic Free Multi systems are the best choice to bring comfort to your whole home or office. One compact, single unit can connect with up to five indoor units, saving space outside. Each room will have independent control so occupants can enjoy more precise temperature control and energy savings when the room is not in use. New generation refrigerant R32 allows excellent performance credentials, achieving A+++ and minimizing the environmental impact.

- Connect from 2 up to 5 indoor units with a single compact outdoor unit

- R32 new refrigerant, efficient and low environmental impact

- Highest efficiency from A+++

- Independent control of each room

- Year-round comfortable temperatures, heating and cooling.

- Year-round air purifying capabilities with advanced Etherea wall units

- Smartphone control whenever and wherever (optional)

- Ready for home automation standards (Modbus, KNX, Bacnet)

Why a Multi Split is better than several separate split units
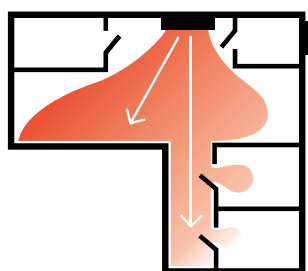
Solution with single split
One indoor unit is connected to one outdoor unit. The indoor unit is placed in the main hallway and heats the entire house. Certain rooms may not be perfectly heated, which causes inadequate comfort.
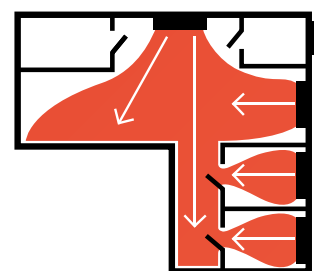
Solution with Multi Split
With one outdoor unit, you can connect up to five indoor units. There is one indoor unit per room or area. It gives an extreme increase in comfort levels. On the roof, there is only one outdoor unit.

Full flexibility up to 10kW and up to 5 ports with wide range of indoor units, including high performance Etherea indoor units, reaching up to A+++/A++ and using new generation R32 refrigerant

Living an eco-lifestyle your way is now easier than ever

Compared to R22 and R410A, R32 has a very low potential impact on the depletion of the ozone layer and global warming.

R32 has been established in line with the Montreal Protocol, a programme which is supported across European Countries and has been developed to prevent global warming, to maintain the environment and to protect the ozone layer.

As the producer and manufacturer of electronic products, Panasonic works closely with the community to actively make this programme successful.

1. Installation innovation

· Extremely easy to install, practically the same as for the R410A. (Just remember to verify that the pressure gauge and vacuum pump are compatible with the R32)
· This refrigerant is 100% pure, which makes it easier to recycle and reuse

2. Environmental innovation

· Zero impact on the ozone layer
· 75% less impact on global warming

### 3. Economic and energy consumption innovation

· Lower cost and greater savings: 30% less refrigerant
· Higher energy efficiency A+++ than R410A
· R32 consumes less energy when there are extreme temperatures outside

A wide range of possibilities

Panasonic offers you the solution that perfectly matches your project in terms of total capacity, single indoor capacity and indoor type choice. Size, performance, quiet operation and other exceptional features can be chosen amongst Panasonic's free multi range.

OUTDOOR UNIT. System Capacity (Min - Max Indoor Cooling Capacity Nominal)

2 Rooms			3 Rooms		4 Rooms		5 Rooms
3,2 - 5,7kW	3,2 - 6,0kW	3,2 - 7,7kW	4,5 - 9,5kW	4,5 - 11,2kW	4,5 - 11,5kW	4,5 - 13,6kW	4,5 - 17,5kW
CU-2Z35TBE	CU-2Z41TBE	CU-2Z50TBE	CU-3Z52TBE	CU-3Z68TBE	CU-4Z68TBE	CU-4Z80TBE	CU-5Z90TBE

INDOOR UNITS

Capacity	16	20	25	35	42	50	60	71
Wall Mounted Etherea Silver		● CS-XZ20TKEW	● CS-XZ25TKEW	● CS-XZ35TKEW		● CS-XZ50TKEW		
Wall Mounted Etherea Pure White Matt	● CS-MZ16TKE	● CS-Z20TKEW	● CS-Z25TKEW	● CS-Z35TKEW	● CS-Z42TKEW	● CS-Z50TKEW		● CS-Z71TKEW
New Wall Mounted TZ Compact Style	● CS-MTZ16TKE	● CS-TZ20TKEW	● CS-TZ25TKEW	● CS-TZ35TKEW	● CS-TZ42TKEW	● CS-TZ50TKEW	● CS-TZ60TKEW	● CS-TZ71TKEW
Low Static Pressure Hide Away			● CS-E9PD3EA	● CS-E12QD3EAW		● CS-E18RD3EAW		
4-Way 60x60 Cassette			● CS-E9PB4EA	● CS-E12PB4EA		● CS-E18RB4EAW	● CS-E21RB4EAW	

PANASONIC FREE MULTI
GREAT SAVINGS AND IMPROVED WELLNESS

Wall Mounted Etherea Silver / Pure White Matt

Etherea with enhanced Econavi sensor and new nanoe™ air-purifying system.
Outstanding efficiency, comfort and healthy air combined with state-of-the-art design.

Wall Mounted TZ Compact Style

TZ compact indoor size.
New TZ Inverter models are powerful and efficient. Compact style to match any space with 799mm wide.

Low Static Pressure Hide Away

Designed for homes, offices, retail and restaurants.
This duct is ideal for small rooms where the air conditioning and the heating should be nicely integrated and where high comfort and efficiency is needed.

4 Way 60x60 Cassette

Ultra compact outdoor units for easy installation.
Specially designed for homes, offices, retail and restaurant applications. This cassette fits perfectly into 60x60 ceiling grids.

New wall mounted Etherea

New Etherea with Econavi intelligent sensor and new nanoe™ air-purifying system: outstanding efficiency A+++, comfort (Super Quiet technology only 19dB(A)) and healthy air combined with a breakthrough design.
The new Etherea has an astonishingly slim design. A breakthrough design that combines perfectly with the most modern environments. We have selected the best materials and processes for a refined design. And now they're available in an elegant metallic or matt silver and matt or gloss white.

**Discover how to achieve energy savings with the new Etherea A+++**

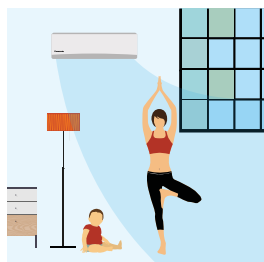## Econavi detects and reduces this waste in all the right ways

Using high-tech sensors and precise control programs, it analyses room conditions and adjusts cooling power accordingly. Econavi is smart enough to locate and operate in all the right places to give you more comfort and better energy savings.

### 5 Features saving energy all at once: Econavi with intelligent eco sensors
Intelligent Sensors detect potential waste of energy using the Human Activity Sensor and Sunlight Sensor. It is able to monitor human location, movements, absence and sunlight intensity. It then automatically adjusts cooling power to save energy efficiently with uninterrupted heating and cooling comfort and convenience.
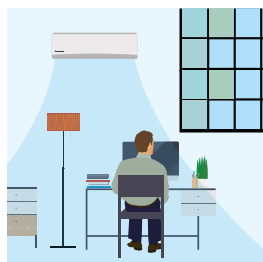
Temperature Wave
Rhythmic temperature-controlled pattern to save energy without sacrificing comfort.

Area Search
Directs airflow to wherever you are in the room. Econavi detects changes in human movements and reduces the waste of cooling the unoccupied area of the room.
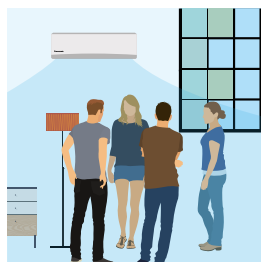
Activity Detection
Adapts cooling power to your daily activities. Econavi detects changes in activity levels and reduces the waste of cooling with unnecessary power.
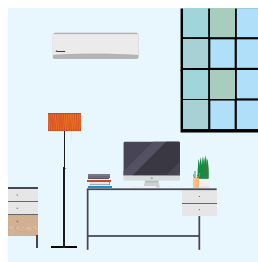
Absence Detection
Reduces cooling power when you are not around. Econavi detects human absence in the room and reduces the waste of cooling an empty room.

Sunlight Detection
Adjusts cooling power to changes in sunlight intensity.

Panasonic can offer you the best solution to get the best temperatures in your home. Panasonic's air conditioners produce the highest levels of comfort with a very small energy cost, creating a healthy air, free of viruses, bacteria, pollen and odours.
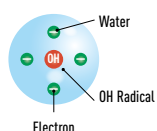
New nanoe™

nanoe™ air purifying system is 99% effective on both airborne and adhesive mould, viruses, bacteria and pollen allergen. New nano-sized electrostatic atomized water particles, nanoe™, improves air quality. Proven benefits of electrostatic atomized water particles, nanoe™, through experiments. The benefits range widely from inhibiting viruses and bacteria, inhibiting mould and allergens, moisturizing skin. Experiments by universities and research institutions have proven the effects of nanoe™.

Airborne
Inhibit 99,9% bacteria and viruses in the air.

nanoe™ attack micro-organisms.

nanoe™ fine particles released from the generator.

Adhesive
Inhibit 99,9% bacteria, viruses, pollen and mould in fabric elements. Also, deodorize odour inside.

Water
OH Radical
Electron

nanoe™ is nano-sized electrostatic atomized water particles with plentiful OH radicals.
Its effectiveness of bacteria inhibition depends on the number of OH radical, which is generated at the rate of 480 billion per second.
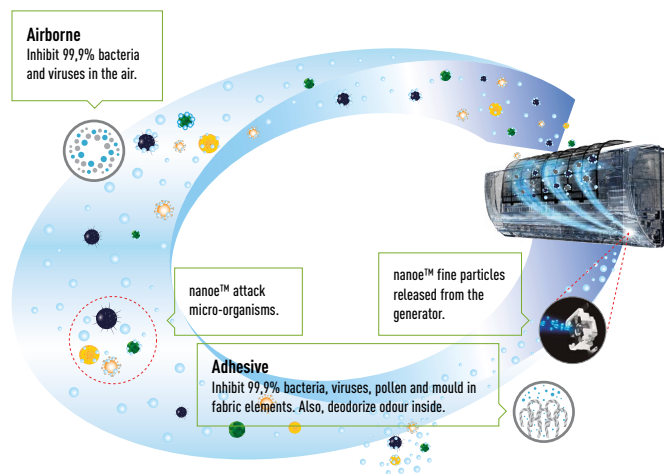
Wall Mounted TZ Compact Style

New generation TZ indoor units combine a stylish compact chasis, quiet operation and special PM2,5 filter. New chasis is only 799mm wide, it is specially suitable for limited spaces such as above the door space.

New PM2,5 Filter

PM2,5 is an air pollutant that can drastically affect people's health. The size of the suspended particulate is thirty times smaller than the width of human hair, essentially making it difficult to see with the naked eye. It causes dangerous breathing problems such as acute bronchitis and lung cancer in older people and young children.

799mm
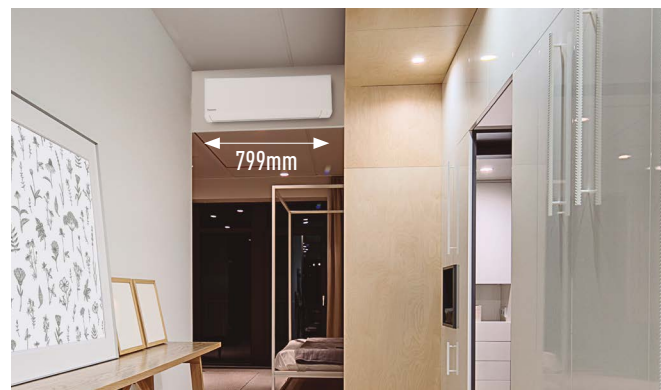
Aerowings

Panasonic's new Aerowings feature incorporates two independent blades that concentrate airflow to cool you down in the shortest time possible. This also helps distribute cool air evenly throughout the room.
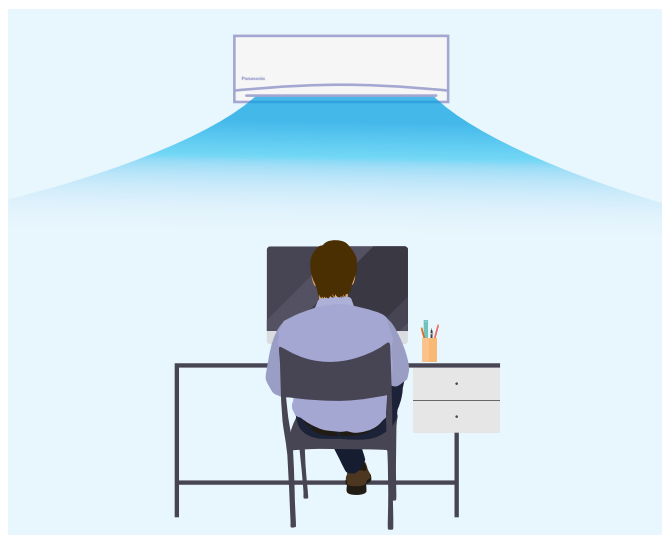
Smartphone control and automated home standards

Panasonic units are ready for today and for the future by equipping a connectivity port.

Internet Control: With this connectivity port you can connect to the internet to control the system with your computer or smartphone. Control the temperature of each room, scheduling, scenes whenever and wherever.

Automated home: With this connectivity port Panasonic units can connect to main protocol standards for home and building automation like Modbus, KNX or Bacnet. Considering the long life time of Panasonic heat pumps, we strive to be ready for the future from today.

FREE MULTI SYSTEM Z - R32 GAS

CU-2Z35TBE
CU-2Z41TBE
CU-2Z50TBE

CU-3Z52TBE
CU-3Z68TBE
CU-4Z68TBE

NEW TECHNOLOGY '17

CU-4Z80TBE
CU-5Z90TBE

R32 | A+++ 8,50 SEER | A++ 4,60 SCOP | INVERTER+ | R2 ROTARY COMPRESSOR | -10°C COOLING MODE | -15°C HEATING MODE | R410A R22 / R32 R410A/R22 RENEWAL | 5 YEARS COMPRESSOR GUARANTEE
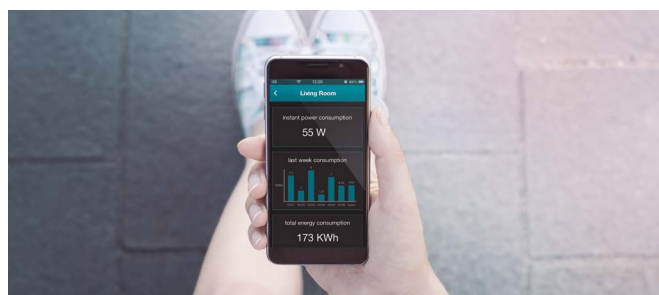
Outdoor Unit Free Multi System Z • R32 GAS*

System Capacity (Min - Max Indoor Cooling Capacity Nominal)			3,2 to 5,7kW	3,2 to 6,0kW	3,2 to 7,7kW	4,5 to 9,5kW	4,5 to 11,2kW	4,5 to 11,5kW	4,5 to 13,6kW	4,5 to 17,5kW
Unit			CU-2Z35TBE	CU-2Z41TBE	CU-2Z50TBE	CU-3Z52TBE	CU-3Z68TBE	CU-4Z68TBE	CU-4Z80TBE	CU-5Z90TBE
Cooling capacity	Nominal (Min - Max)	kW	3,50 (1,50 - 4,50)	4,10 (1,50 - 5,20)	5,00 (1,50 - 5,40)	5,20 (1,90-7,20)	6,80 (1,90 - 8,00)	6,80 (1,90 - 8,80)	8,00 (3,00 - 9,20)	10,00 (2,90 - 11,50)
EER [1]	Nominal (Min - Max)	W/W	4,86 (6,00 - 4,09) A	4,56 (6,00 - 3,80) A	4,24 (5,00 - 3,62) A	4,95 A	3,66 (7,04 - 3,38) A	4,39 (5,59 - 3,56) A	4,04 (5,66 - 3,21) A	3,5 (5,27 - 2,98) A
SEER		W/W	8,50 A+++	8,50 A+++	8,50 A+++	8,50 A+++	8,00 A++	8,00 A++	7,00 A++	6,50 A++
Pdesign (cooling)		kW	3,5	4,1	5,0	5,2	6,8	6,8	8,0	10,0
Input power cooling	Nominal (Min - Max)	kW	0,72 (0,25 - 1,10)	0,90 (0,25 - 1,37)	1,18 (0,25 - 1,49)	1,09 (0,36 - 2,18)	1,86 (0,27 - 2,37)	1,55 (0,34 - 2,47)	1,98 (0,53 - 2,87)	2,86 (0,55 - 3,86)
Annual electricity consumption (cooling) [2]		kWh/a	144	169	206	214	298	298	—	—
Heating capacity	Nominal (Min - Max)	kW	4,20 (1,10 - 5,60)	4,60 (1,10 - 7,00)	5,60 (1,10 - 7,20)	6,80 (1,60-8,30)	8,50 (3,30 - 10,40)	8,50 (3,00 - 10,60)	9,40 (4,20 - 10,60)	12,00 (3,40 - 14,50)
Heating capacity at -7°C		kW	—	—	—	3,95	4,45	4,45	—	—
COP [1]	Nominal (Min - Max)	W/W	4,88 (5,24 - 4,18) A	4,79 (5,24 - 3,91) A	4,63 (5,24 - 4,00) A	4,72 A	3,95 (5,32 - 3,64) A	4,47 (5,17 - 3,96) A	4,52 (6,00 - 3,46) A	4,20 (6,42 - 3,42) A
SCOP		W/W	4,60 A++	4,60 A++	4,60 A++	4,20 A+	4,20 A+	4,20 A+	4,00 A+	4,00 A+
Pdesign at -10°C		kW	3,2	3,5	4,2	5,0	5,2	5,8	8,0	10,0
Input power heating	Nominal (Min - Max)	kW	0,86 (0,21 - 1,34)	0,96 (0,21 - 1,79)	1,21 (0,21 - 1,80)	1,47 (3,20 - 2,17)	2,15 (0,62 - 2,86)	1,90 (0,58 - 2,68)	2,08 (0,70 - 3,06)	2,86 (0,53 - 4,24)
Annual electricity consumption (heating) [2]		kWh/a	974	1.065	1.278	1.667	1.733	1.933	—	—
Current	Cooling / Heating	A	3,35 / 4,00	4,15 / 4,45	5,35 / 5,50	5,00 / 6,70	8,40 / 9,70	7,00 / 8,60	—	—
Power source		V	230	230	230	230	230	230	230	230
Recommended fuse		A	16	16	16	16	16	20	20	25
Recommended power cable section		mm²	2,5	2,5	2,5	2,5	2,5	2,5	2,5	3,5
Sound pressure [3]	Cooling / Heating (Hi)	dB(A)	48 / 50	48 / 50	50 / 52	47 / 48	51 / 52	49 / 50	—	—
Dimensions [4]	H x W x D	mm	619 x 824 x 299	619 x 824 x 299	619 x 824 x 299	795 x 875 x 320	795 x 875 x 320	795 x 875 x 320	999 x 940 x 340	999 x 940 x 340
Net weight		kg	39	39	39	71	71	72	80	81
Piping connections	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
	Gas pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Elevation difference (in/out)	Max	m	10	10	10	15	15	15	15	15
Piping length total	Min ~ Max	m	3 ~ 30	3 ~ 30	3 ~ 30	3 ~ 50	3 ~ 60	3 ~ 60	—	—
Piping length to one unit	Min ~ Max	m	3 ~ 20	3 ~ 20	3 ~ 20	3 ~ 25	3 ~ 25	3 ~ 25	3 ~ 25	3 ~ 25
Pipe length for additional gas / Additional gas amount		m / g/m	20 / 15	20 / 15	20 / 15	30 / 20	30 / 20	30 / 20	—	—
Operating range	Cooling Min ~ Max	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
	Heating Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

1) EER and COP classification is at 230V in accordance with EU directive 2002/31/EC. 2) The annual energy consumption is calculated in accordance with the ErP directive. 3) The Sound pressure of the units shows the value measured of a position 1m in front of the main body and 0,8m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 4) Add 70 or 95mm for piping port.
Minimum quantity of connection: 2 indoor units. * Tentative data.

Possible outdoor / indoor units combinations • R32 GAS

	Etherea Silver								Etherea Pure White Matt								Wall Mounted TZ Compact Style								Low Static Pressure Hide Away								4 Way 60x60 Cassette							
	16	20	25	35	42	50	60	71	16	20	25	35	42	50	60	71	16	20	25	35	42	50	60	71	16	20	25	35	42	50	60	71	16	20	25	35	42	50	60	71
CU-2Z35TBE // 3,2 - 5,7kW // 2 Rooms		✔	✔	✔						✔	✔	✔	✔					✔	✔	✔	✔						✔	✔							✔	✔				
CU-2Z41TBE // 3,2 - 6,0kW // 2 Rooms		✔	✔	✔						✔	✔	✔	✔					✔	✔	✔	✔						✔	✔							✔	✔				
CU-2Z50TBE // 3,2 - 7,7kW // 2 Rooms		✔	✔	✔	✔[1]	✔[1]				✔	✔	✔	✔	✔[1]	✔[1]			✔	✔	✔	✔	✔	✔				✔	✔		✔[1]					✔	✔		✔[1]		
CU-3Z52TBE // 4,5 - 9,5kW // 3 Rooms		✔	✔	✔	✔[1]	✔[1]				✔	✔	✔	✔	✔[1]	✔[1]			✔	✔	✔	✔	✔	✔				✔	✔		✔[1]					✔	✔		✔[1]		
CU-3Z68TBE // 4,5 - 11,2kW // 3 Rooms		✔	✔	✔	✔[1]	✔[1]				✔	✔	✔	✔	✔[1]	✔[1]			✔	✔	✔	✔	✔	✔	✔[1]			✔	✔		✔[1]					✔	✔		✔[1]	✔[1]	
CU-4Z68TBE // 4,5 - 11,5kW // 4 Rooms		✔	✔	✔	✔[1]	✔[1]				✔	✔	✔	✔	✔[1]	✔[1]			✔	✔	✔	✔	✔	✔	✔[1]			✔	✔		✔[1]					✔	✔		✔[1]	✔[1]	
CU-4Z80TBE // 4,5 - 13,6kW // 4 Rooms		✔	✔	✔	✔[1]	✔[1]				✔	✔	✔	✔	✔[1]	✔[1]		✔[1]		✔	✔	✔	✔	✔	✔[1]	✔[1]		✔	✔		✔[1]					✔	✔		✔[1]	✔[1]	
CU-5Z90TBE // 4,5 - 17,5kW // 5 Rooms		✔	✔	✔	✔[1]	✔[1]				✔	✔	✔	✔	✔[1]	✔[1]		✔[1]		✔	✔	✔	✔	✔	✔[1]	✔[1]		✔	✔		✔[1]					✔	✔		✔[1]	✔[1]	

1) A CZ-MA1P pipe reducer is needed on the 42 and 50, a CZ-MA2P pipe expander is needed on the 60 and CZ-MA3P pipe reducer on the 71.

Outdoor Multi combination model	Accessory
CS-MZ16TKE / CS-MTZ16TKE CS-XZ20TKEW / CS-Z20TKEW / CS-TZ20TKEW / CS-TE20TKEW CS-XZ25TKEW / CS-Z25TKEW / CS-TZ25TKEW / CS-TE25TKEW / CS-E9PD3EA / CS-E9PB4EA CS-XZ35TKEW / CS-Z35TKEW / CS-TZ35TKEW / CS-TE35TKEW / CS-E12QD3EAW / CS-E12PB4EA CS-E18RD3EAW / CS-E18RB4EAW	CU-2Z35TBE / CU-2Z41TBE / CU-2Z50TBE / CU-3Z52TBE / CU-3Z68TBE / CU-4Z68TBE / CU-4Z80TBE / CU-5Z90TBE —
CS-Z42TKEW / CS-E15QKEW / CS-TZ42TKEW / CS-TE42TKEW CS-XZ50TKEW / CS-Z50TKEW / CS-TZ50TKEW / CS-TE50TKEW	CU-3Z52TBE / CU-3Z68TBE / CU-4Z68TBE / CU-4Z80TBE / CU-5Z90TBE CZ-MA1P
CS-E21RB4EAW	CU-4Z68TBE / CU-4Z80TBE / CU-5Z90TBE CZ-MA2P
CS-Z71TKEW / CS-TZ71TKEW	CU-4Z80TBE / CU-5Z90TBE CZ-MA3P

CZ-MA1P is to be used to reduce the connection size on the indoor unit from 1/2¨ to 3/8¨.
CZ-MA2P is to be used to increase the connection size on the outdoor unit from 3/8¨ to 1/2¨.
CZ-MA3P is to be used to reduce the connection size on the indoor unit from 5/8¨ to 1/2¨.

INTERNET CONTROL: Optional. iF DESIGN AWARD 2017: Etherea White awarded with the prestigious IF Design Award 2017.

Etherea			1,6kW	2,0kW	2,5kW	3,2kW	4,0kW	5,0kW	7,1kW
Indoor Unit Silver			—	CS-XZ20TKEW	CS-XZ25TKEW	CS-XZ35TKEW	—	CS-XZ50TKEW	—
Indoor Unit Pure White Matt			CS-MZ16TKE	CS-Z20TKEW	CS-Z25TKEW	CS-Z35TKEW	CS-Z42TKEW	CS-Z50TKEW	CS-Z71TKEW
Cooling capacity		kW / kCal/h	1,60 / 1.380	2,00 / 1.720	2,50 / 2.150	3,20 / 2.750	4,00 / 3.440	5,00 / 4.300	7,10 / 6105
Heating capacity		kW / kCal/h	2,60 / 2.240	3,20 / 2.750	3,60 / 3.010	4,50 / 3.870	5,60 / 4.820	6,80 / 5.850	8,60 / 7.395
Connection		mm²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5	—
Sound pressure[1]	Cooling (Hi / Lo / S-Lo)	dB(A)	39 / 29 / 23	37 / 24 / 19	39 / 25 / 19	42 / 28 / 19	43 / 31 / 25	44 / 37 / 30	47 / 38 / 30
	Heating (Hi / Lo / S-Lo)	dB(A)	39 / 29 / 23	38 / 25 / 19	41 / 27 / 19	43 / 33 / 19	43 / 35 / 29	44 / 37 / 30	47 / 38 / 30
Dimensions / Net weight	H x W x D	mm / kg	295 x 919 x 194 / 9	295 x 919 x 194 / 9	295 x 919 x 194 / 10	295 x 919 x 194 / 10	295 x 919 x 194 / 10	299 x 1.120 x 236 / 10	299 x 1.120 x 236 / —
Piping connections	Liquid pipe / Gas pipe	Inch (mm)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	—

INTERNET CONTROL: Optional.

Wall Mounted TZ Compact Style			1,6kW	2,0kW	2,5kW	3,2kW	4,0kW	5,0kW	6,0kW	7,1kW
Indoor Unit			CS-MTZ16TKE*	CS-TZ20TKEW*	CS-TZ25TKEW*	CS-TZ35TKEW*	CS-TZ42TKEW*	CS-TZ50TKEW**	CS-TZ60TKEW***	CS-TZ71TKEW
Cooling capacity		kW / kCal/h	1,60 / 1.380	2,00 / 1.720	2,50 / 2.150	3,20 / 2.750	4,00 / 3.440	5,00 / 4.300	7,00 / 6.580	7,10 / 6105
Heating capacity		kW / kCal/h	2,60 / 2.240	3,20 / 2.750	3,60 / 3.010	4,50 / 3.870	5,60 / 4.820	6,80 / 5.850	8,70 / 8.260	8,60 / 7.395
Connection		mm²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5	—
Sound pressure[1]	Cooling (Hi / Lo / S-Lo)	dB(A)	—	37 / 25 / 20	40 / 26 / 20	42 / 30 / 20	44 / 31 / 29	44 / 37 / 34	45 / 37 / 30	47 / 38 / 35
	Heating (Hi / Lo / S-Lo)	dB(A)	—	38 / 26 / 23	40 / 27 / 24	42 / 33 / 25	44 / 35 / 28	44 / 37 / 34	45 / 37 / 30	47 / 38 / 35
Dimensions / Net weight	H x W x D	mm / kg	290 x 799 x 197 / 8	290 x 799 x 197 / 8	290 x 799 x 197 / 8	290 x 799 x 197 / 8	290 x 799 x 197 / 8	302 x 1.102 x 244 / 12	302 x 1.102 x 244 / 12	302 x 1.102 x 244 / 13
Piping connections	Liquid pipe / Gas pipe	Inch (mm)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 5/8 (15,88)	1/4 (6,35) / 5/8(15,88)

* Available in February 2017.** Available in March 2017.*** Available in April 2017.
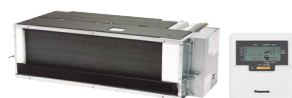
INTERNET CONTROL READY and EASY CONTROL by BMS: Optional.

Low Static Pressure Hide Away			2,5kW	3,2kW	5,0kW
Indoor			CS-E9PD3EA	CS-E12QD3EAW	CS-E18RD3EAW
Cooling capacity		kW / kCal/h	2,50 / 2.150	3,40 / 2.920	5,10
Heating capacity		kW / kCal/h	3,20 / 2.752	4,00 / 3.440	6,10
Connection		mm²	4 x 1,5 to 2,5	4 x 1,5 to 2,5	4 x 1,5 to 2,5
Sound pressure[1]	Cooling (Hi / Lo / S-Lo)	dB(A)	33 / 27 / 24	34 / 27 / 24	41 / 30 / 27
	Heating (Hi / Lo / S-Lo)	dB(A)	35 / 28 / 25	36 / 28 / 25	41 / 32 / 29
Dimensions / Net weight	H x W x D	mm / kg	235 x 750 x 370 / 17	235 x 750 x 370 / 17	200 x 750 x 640 / 19
Piping connections	Liquid pipe / Gas pipe	Inch (mm)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 1/2 (12,70)

Panel CZ-BT20E (sold separately)

INTERNET CONTROL READY and EASY CONTROL by BMS: Optional.

4 Way 60x60 Cassette			2,5kW	3,2kW	5,0kW	6,0kW
Indoor / Panel			CS-E9PB4EA / CZ-BT20E	CS-E12PB4EA / CZ-BT20E	CS-E18RB4EAW / CZ-BT20E	CS-E21RB4EAW / CZ-BT20E
Cooling capacity		kW / kCal/h	2,50 / 2.150	3,40 / 2.920	5,00 / 4.300	5,90 / 5.070
Heating capacity		kW / kCal/h	3,20 / 2.752	4,50 / 3.870	5,60 / 4.820	7,00 / 6.020
Connection		mm²	4 x 1,5 to 2,5	4 x 1,5 to 2,5	4 x 1,5 to 2,5	4 x 1,5 to 2,5
Sound pressure[1]	Cooling (Hi / Lo / S-Lo)	dB(A)	34 / 26 / 23	34 / 26 / 23	37 / 28 / 25	42 / 33 / 30
	Heating (Hi / Lo / S-Lo)	dB(A)	35 / 28 / 25	35 / 28 / 25	38 / 29 / 26	43 / 34 / 31
Dimensions / Net weight	Indoor H x W x D	mm / kg	260 x 575 x 575 / 18	260 x 575 x 575 / 18	260 x 575 x 575 / 18	260 x 575 x 575 / 18
	Panel H x W x D	mm / kg	51 x 700 x 700 / 2,5	51 x 700 x 700 / 2,5	51 x 700 x 700 / 2,5	51 x 700 x 700 / 2,5
Piping connections	Liquid pipe / Gas pipe	Inch (mm)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)

1) The Sound pressure of the units shows the value measured of a position 1m in front of the main body. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 2) The specification listed on the table indicates values under the condition of 29 Pa (3,0 mmAq) which are applied for factory default setting. Change switch on PCB from Hi to S-Hi to have more than 6,0 mmAq.

High performance and healthy air

99% nanoe nanoe™. nanoe™ utilises nano-technology fine particles to purify the air in the room. It works effectively on airborne and adhesive micro-organisms such as bacteria, viruses and mould thus ensuring a cleaner living environment. This technology has received the seal of approval from the British Allergy Foundation.

PM2,5 FILTER PM2,5 Filter. Particulate matter (PM2,5) can be found suspended in the air, including dust, dirt, smoke and liquid droplets. Sized at 2,5µm, these particles are said to pose health problems as they can easily enter our lungs.

18dB(A) SUPER QUIET With Super Quiet technology, our devices are quieter than a library environment (30dB(A)).

HUMIDITY CONTROL MILD DRY Mild Dry Cooling. Fine control helps prevent a rapid decrease in room humidity while maintaining the set temperature. Maintains an RH* up to 10% higher than cooling operation (*RH: Relative Humidity). Ideal when sleeping with the air conditioner on.

AEROWINGS Aerowings. More comfort with Aerowings. Direct airflow to ceiling to create shower cooling effect by twin flap built in indoor.

-10°C COOLING MODE Down to -10°C in cooling only mode. The air conditioner works in cooling only mode with an outdoor temperature of -10°C.

-15°C HEATING MODE Down to -15°C in heating mode. The air conditioner works in heat pump mode with an outdoor temperature as low as -15°C.

R22 RENEWAL R22 Renewal. The Panasonic renewal system allows good quality existing R22 pipe work to be re-used whilst installing new high efficiency R410A systems.

R410A/R22 RENEWAL R410A/R22 Renewal. The Panasonic renewal system allows good quality existing R410A or R22 pipe work to be re-used whilst installing new high efficiency R32 systems.

Energy saving

38% ECONAVI Econavi. The sensor determines the human activity level and position in the room, adjusting the air flow orientation accordingly for maximum comfort and savings, all whilst detecting changes in sunlight intensity. It reduces unnecessary heating under more sunlight conditions.

INVERTER+ Inverter Plus System. Inverter plus products improve on the characteristics of standard Inverter air conditioners by over 20%. This means 20% less consumption and 20% off your electric bill. Inverter plus is also A class on cooling and heating mode.

R2 ROTARY COMPRESSOR R2 Rotary Compressor. Panasonic R2 Rotary Compressor. Designed to withstand extreme conditions, it delivers high performance and efficiency.

R32 Refrigerant R32. Our heat pumps containing the new refrigerant R32 show a drastic reduction in the value of Global Warming Potential (GWP). An important step to reduce greenhouse gases. R32 is also a refrigerant component, making it easy to recycle.

High connectivity

INTEGRATION P-LINE CZ-CAPRA1: CZ-CNT port integration to PACi and ECOi. New Domestic integration to P-Line. Can connect ranges to P-Line. Full control is now possible.

INTERNET CONTROL Internet Control. Internet Control is a next generation system providing user-friendly remote controller of air conditioning or heat pump units from everywhere, using a simple Android or iOS smartphone, tablet or PC via internet.

BMS CONNECTIVITY Easy control by BMS. The communication port is integrated into the indoor unit and provides easy connection to, and control of, your Panasonic heat pump to your home or building management system.

5 YEARS 5 Years Warranty. Panasonic guarantees the compressors in the entire range for five years.

iF DESIGN AWARD 2017 The iF Product Design Awards are among the most prestigious awards for product design excellence. Winning the award thanks to its highly intelligent functionality, the Panasonic Etherea is the ideal air-conditioning system for domestic and commercial applications.

Outdoor unit features	Refrigerant R32	SEER	SCOP	Inverter+ system	R2 Rotary Compressor	Down to -10°C in cooling only	Down to -15°C in heating mode	R410A/R22 Renewal	Warranty on the compressor
CU-2Z35TBE // CU-2Z41TBE // CU-2Z50TBE	✔	8,50 A+++	4,60 A++	✔	✔	✔	✔	✔	✔
CU-3Z52TBE // CU-3Z68TBE	✔	8,50 A+++ 8,00 A++	4,20 A+	✔	✔	✔	✔	✔	✔
CU-4Z68TBE // CU-4Z80TBE	✔	8,00 A++ 7,00 A++	4,20 A+ 4,00 A+	✔	✔	✔	✔	✔	✔
CU-5Z90TBE	✔	6,50 A++	4,00 A+	✔	✔	✔	✔	✔	✔

Indoor unit features	Econavi	nanoe™	PM2,5 Filter	Aerowings	Super Quiet*	Integration to P-Line (Optional)	Internet Control (Optional)	Easy control by BMS (Optional)
Wall Mounted Etherea	✔	✔		✔	✔ 19dB(A) for XZ/Z20, XZ/Z25 and XZ/Z35	✔	✔	✔
New Wall Mounted TZ Compact Style			✔	✔	✔ 20dB(A) for TZ25/35	✔	✔	✔
Low Static Pressure Hide Away						✔	✔	✔
4-Way 60x60 Cassette					✔ 23dB(A) for E9/12	✔	✔	✔

* At the lowest fan speed.

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Panasonic Marketing Europe GmbH
Panasonic Air Conditioning
Hagenauer Strasse 43, 65203 Wiesbaden, Germany

heating & cooling solutions