



TZ series: Smart comfort and cleaner air in a compact unit

1. 24/7 cleaner air with nanoe™ X technology

- Works independently of heating or cooling modes
- Maintenance-free: No filters or replacements required

2. Super-compact design

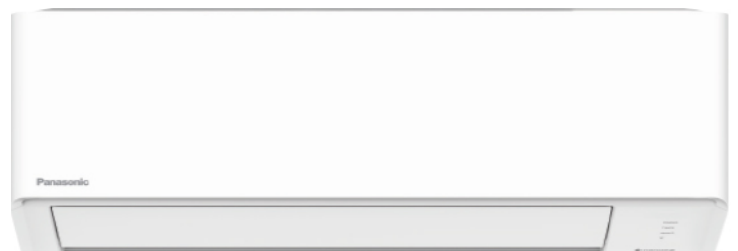
- Just 765mm wide, ideal for tight spaces like above doors

3. Smart control

- Built-in Wi-Fi for smart control via Comfort Cloud App
- Works with Google Home and Alexa

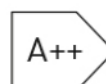
4. High comfort

- Aerowings for fast and even air distribution
- Super Quiet operation, as low as 20dB(A)



R32

nanoe[™]X



TZ with nanoe™ X technology

TZ with nanoe™ X: Smart comfort and cleaner air in a compact unit.

TZ features nanoe™ X technology with the benefits of hydroxyl radicals for a cleaner and more comfortable indoor environment.

Only 765mm wide

Built-in nanoe™ X (Generator Mark 2)

Built-in Wi-Fi



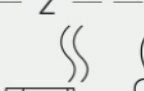


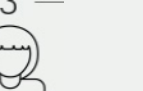
Bringing nature's balance indoors
nanoe™ X, technology with the benefits of hydroxyl radicals
 Abundant in nature, hydroxyl radicals have the capacity to inhibit pollutants. nanoe™ X, technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and pleasant place to be.



7 effects of nanoe™ X – Panasonic unique technology

- 1. Capacity to inhibit 5 types of pollutants:** Bacteria and viruses - Mould - Allergens - Pollen - Hazardous substances
- 2. Deodorises:** Odours
- 3. Moisturises:** Skin and hair

1

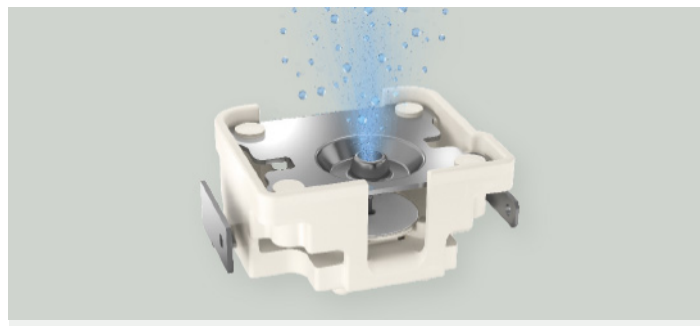

2


3


nanoe™ X: improving protection 24/7

Give the air conditioning the strength to increase the protection at home with nanoe™ X technology and convenient control via the Panasonic Comfort Cloud App. nanoe™ X works together with heating or cooling function when you are at home and can work independently when you are away.



Maintenance-free

No service and maintenance required. nanoe™ X is a filter free solution that does not require maintenance, as its atomisation electrode is enveloped with water during its generation process and it is made with Titanium.

*The image shows nanoe X enerator Mark 3.

Technology for high comfort

Super-compact design, smart details

This super-compact indoor unit, just 765 mm wide, combines smart design elements that make installation and servicing easier, provide effortless everyday operation, and deliver a clean, modern look without compromising performance. Its ultra-compact size makes it ideal for tight spaces, including above doors.



Aerowings

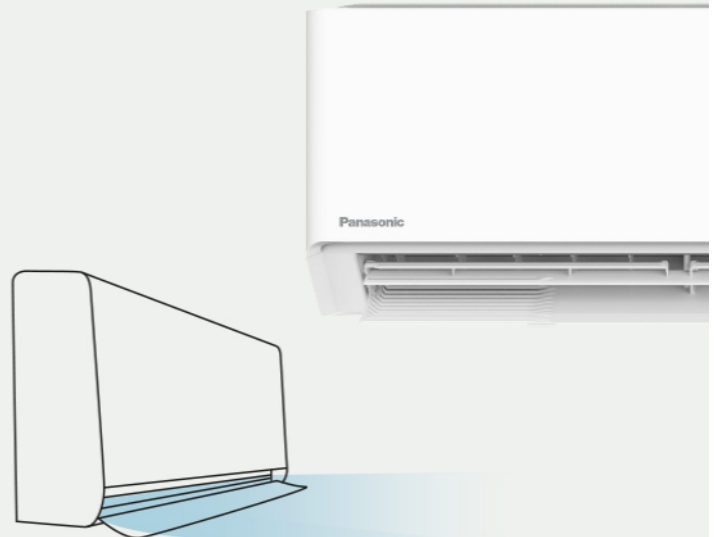
Panasonic's Aerowings feature incorporates two blades that concentrate air flow to cool you down in the shortest time possible. This also helps distribute cool air evenly throughout the room.

Comfort that goes on and on with Shower Cooling.

When the Aerowings twin blades direct air towards the ceiling they create the Shower Cooling effect.

This ensures cool air is evenly distributed throughout the room and you can stay comfortable without experiencing continuous direct cooling.

Panasonic Air Conditioners with Aerowings feature an indoor design with wider intake grille and super-high fan speed to produce bigger air flow.

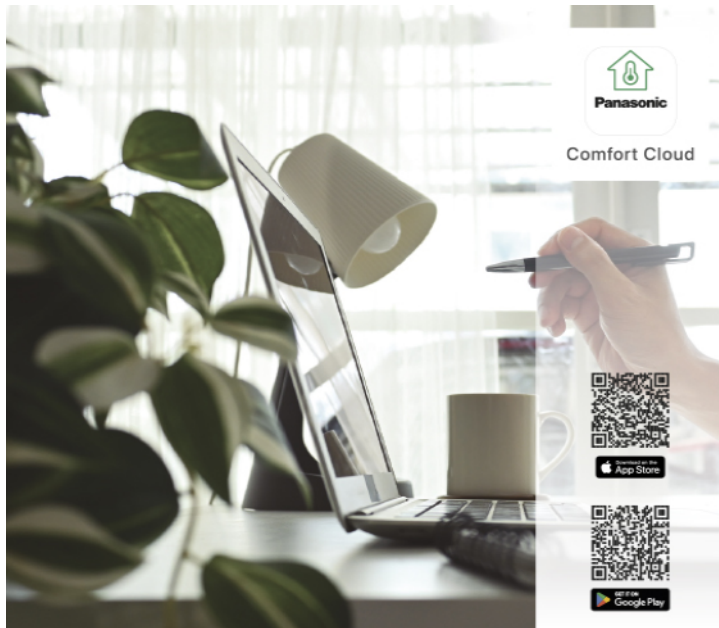


High class, easy-to-use remote control with backlight

The easy-to-use remote controller features an ergonomic design with tapered rear housing for the most comfortable grip. The new controller's intuitive design provides easy operation with five quick access keys for convenient use. The controller also has a minimalist design with the less frequently used keys concealed under a sliding cover.



Smart & intuitive controls



Panasonic Comfort Cloud App

Whether you are at home, at the office or running a business, Panasonic Comfort Cloud App put total control of your indoor air quality at your fingertips.

Remote control: Control and monitor your air conditioners anytime, anywhere

Monitor energy consumption: Check the energy consumption of each individual unit across different time intervals by comparing the energy usage patterns to maximise energy savings

nanoe™ X: improving protection 24/7*: Switch on nanoe™ X mode with cooling OFF / ON and see the nanoe™ X coverage in your space through a simulation.

* Only for units compatible with nanoe™ X function.

Voice Control. Words do more than actions

Boundless control and hands-free help to access all the features of your air-to-air heat pump.

Maximising your comfort is now a breeze with our connected air conditioners using the Panasonic Comfort Cloud App and voice control.

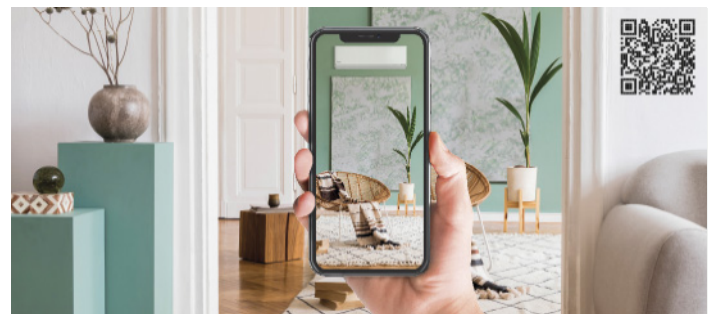
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Domestic AirCon Quick Selector

This user-friendly online tool for our domestic range allows to choose the best split or multi-split system for each project needs and get the specifications of that particular application.

Configure in a few steps your multi split system with our online tool and see the capacity of all possible combinations



AR Heat Pump Viewer

Interested to see how a Panasonic air conditioner looks in your home?

Try the new Panasonic AR projector, utilising augmented reality!

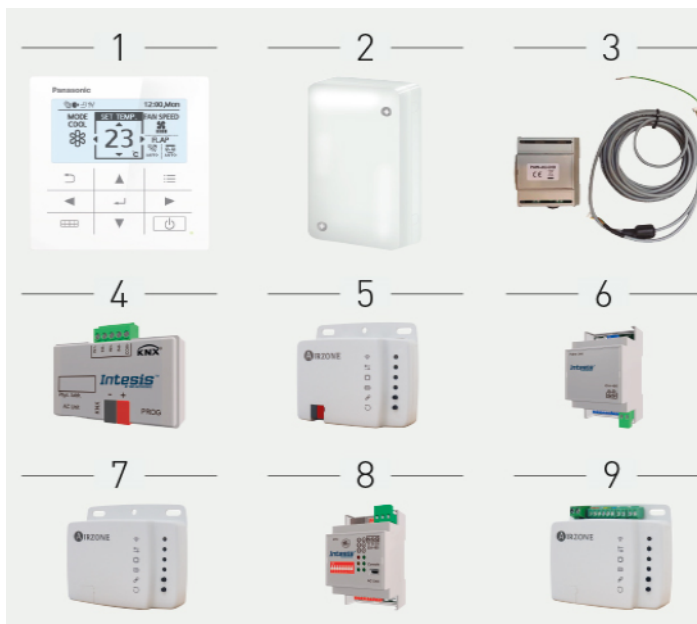
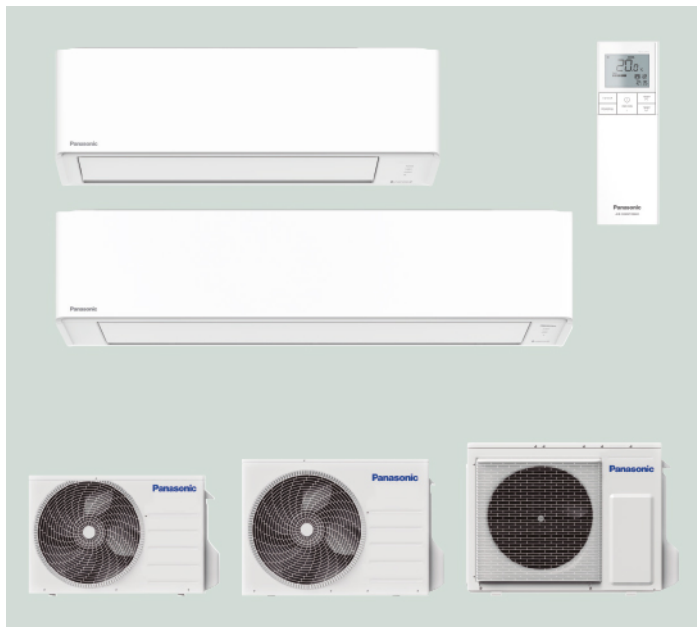
Product and accessories

Free Multi system

If air conditioning requirements exceed the scope of a single room, Panasonic offers an extensive range of possibilities with a multi split solution.

Up to 5 indoor units with a single outdoor unit.

- Just one compact outdoor unit
- Increased comfort in the house since every room has its own indoor unit for heating or cooling
- Much more powerful than a single split
- More efficient since the units are always operating at full capacity
- You can connect all types of indoor units, such as wall types and consoles, depending on what suits your house best



Accessories

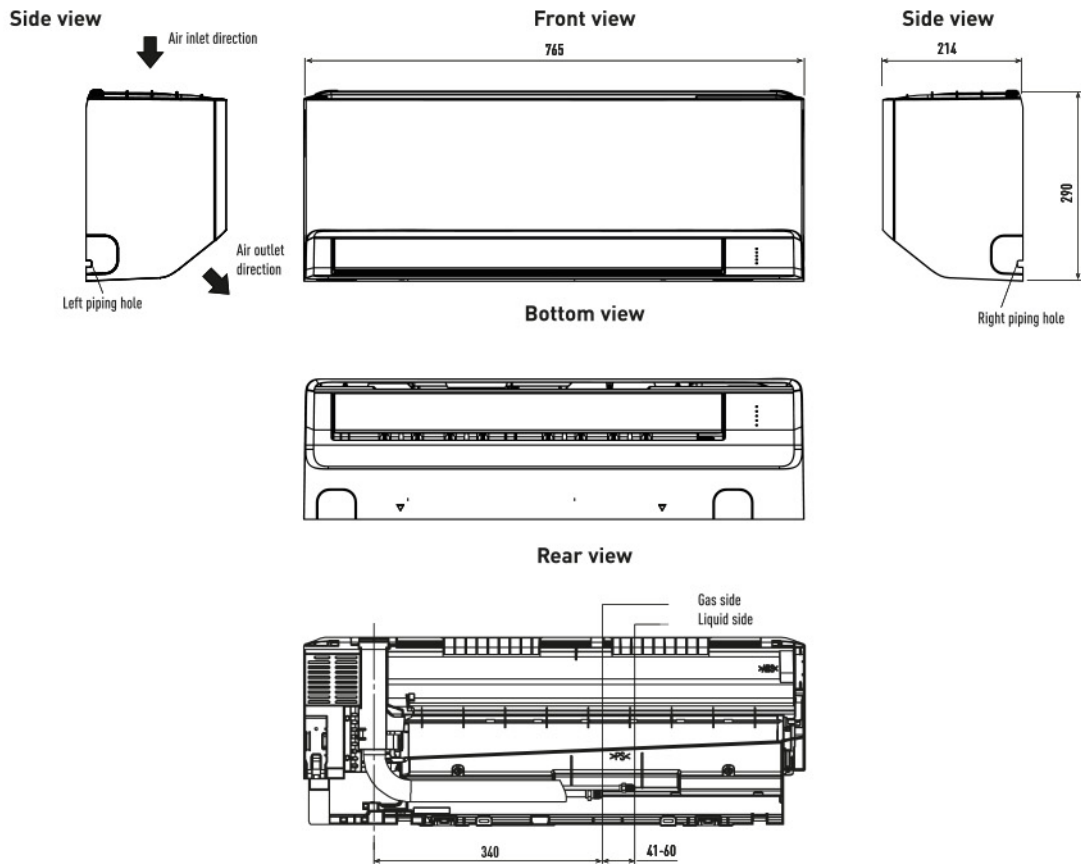
- 1. CZ-RD517C:** Wired remote controller for wall-mounted and floor console.
- 2. CZ-CAPRA1:** RAC interface adapter for integration into S-Link.
- 3. PAW-AC-DIO:** Dry contact interface for RAC models with CN-RMT connector.
- 4. PAW-AC-KNX-1i:** KNX gateway powered via CN-CNT. For RAC models with CN-CNT connector.
- 5. PAW-AZAC-KNX-1:** KNX gateway with 12V DC power supply. For RAC models with CN-CNT connector.
- 6. PAW-AC-MBS-1:** DIN rail-mounted Modbus gateway, powered via CN-CNT. For RAC models with CN-CNT connector.
- 7. PAW-AZAC-MBS-1:** Modbus gateway with 12V DC power supply. For RAC models with CN-CNT connector.
- 8. PAW-AC-BAC-1:** DIN rail-mounted BACnet gateway, powered via CN-CNT. For RAC models with CN-CNT connector.
- 9. PAW-AZAC-BAC-1:** BACnet gateway with 12V DC power supply. For RAC models with CN-CNT connector.

TZ super-compact with nanoe™ X R32

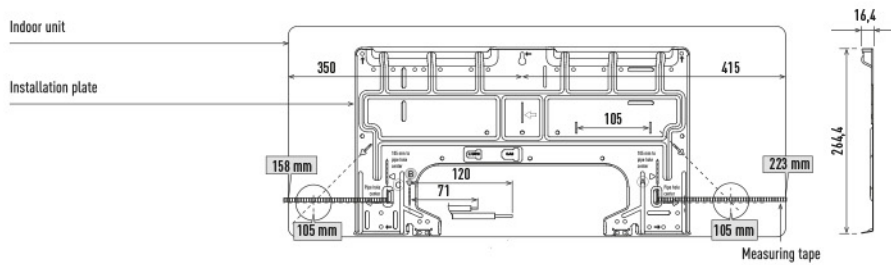
TZ super-compact with nanoe™ X R32		SINGLE PHASE						
		2.0 kW	2.5 kW	3.5 kW	4.2 kW	5.0 kW	6.0 kW	7.1 kW
Kit		KIT-TZ20-CKE	KIT-TZ25-CKE	KIT-TZ35-CKE	KIT-TZ42-CKE	KIT-TZ50-CKE	KIT-TZ60-CKE	KIT-TZ71-CKE
Cooling capacity (Nominal)	kW	2,00	2,50	3,50	4,20	5,00	6,00	7,10
Cooling capacity (Min)	kW	0,75	0,85	0,85	0,85	0,98	0,98	0,98
Cooling capacity (Max)	kW	2,50	3,00	4,00	4,60	5,60	6,60	8,40
EER (Nominal) (1)	W/W	4,08	3,85	3,57	3,36	3,13	3,24	3,23
EER (Min) (1)	W/W	4,17	4,05	3,62	3,62	3,92	3,92	2,33
EER (Max) (1)	W/W	3,91	3,41	3,33	2,80	2,96	2,87	2,80
SEER (2)		7,00 A++	7,30 A++	7,30 A++	6,60 A++	6,90 A++	6,90 A++	6,30 A++
Pdesign (cooling)	kW	2,0	2,5	3,5	4,2	5,0	6,0	7,1
Input power cooling (Nominal)	kW	0,49	0,65	0,98	1,25	1,60	1,85	2,20
Input power cooling (Min)	kW	0,18	0,21	0,24	0,24	0,25	0,25	0,42
Input power cooling (Max)	kW	0,64	0,88	1,20	1,64	1,89	2,30	3,00
Annual energy consumption cooling (3)	kWh/a	100	120	168	223	254	304	394
Heating capacity (Nominal)	kW	2,70	3,30	4,00	5,00	5,80	7,00	8,20
Heating capacity (Min)	kW	0,70	0,80	0,80	0,80	0,98	0,98	0,98
Heating capacity (Max)	kW	3,60	4,10	5,10	6,80	7,50	8,20	10,20
Heating capacity at -7°C	kW	2,35	2,70	3,30	3,90	4,62	4,90	6,31
COP (Nominal) (1)	W/W	4,15	4,18	4,04	3,73	3,41	3,72	3,71
COP (Min) (1)	W/W	4,24	4,21	4,10	4,10	4,67	4,67	2,45
COP (Max) (1)	W/W	3,53	3,66	3,70	3,33	3,26	3,57	3,29
SCOP (2)		4,60 A++	4,60 A++	4,60 A++	4,10 A+	4,50 A+	4,30 A+	4,10 A+
Pdesign at -10°C	kW	2,1	2,4	2,8	3,6	4	4,4	5,5
Input power heating (Nominal)	kW	0,65	0,79	0,99	1,34	1,7	1,88	2,21
Input power heating (Min)	kW	0,17	0,19	0,20	0,20	0,21	0,21	0,40
Input power heating (Max)	kW	1,02	1,12	1,38	2,04	2,30	2,30	3,10
Annual energy consumption heating (3)	kWh/a	639	730	852	1 229	1 244	1 433	1 878
Indoor unit		CS-TZ20CKEW	CS-TZ25CKEW	CS-TZ35CKEW	CS-TZ42CKEW	CS-TZ50CKEW	CS-TZ60CKEW	CS-TZ71CKEW
Indoor power source	V	230	230	230	230	230	230	230
Indoor recommended fuse	A	16	16	16	16	16	20	20
Indoor connection indoor / outdoor	mm ²	4x1,5	4x1,5	4x1,5	4x1,5	4x2,5	4x2,5	4x2,5
Indoor air flow (Cool)	m ³ /min	10,0	11,0	11,8	12,6	12,6	19,9	20,4
Indoor air flow (Heat)	m ³ /min	10,5	11,5	12,3	13,3	13,4	21,0	21,6
Moisture removal volume	L/h	1,3	1,5	2	2,4	2,8	3,3	4,1
Indoor sound pressure (Cool - Hi) (4)	dB(A)	37	40	42	44	44	45	47
Indoor sound pressure (Cool - Hi) (4)	dB(A)	37	40	42	44	44	45	47
Indoor sound pressure (Cool - Lo) (4)	dB(A)	25	26	30	31	37	37	38
Indoor sound pressure (Cool - Q-Lo) (4)	dB(A)	20	20	20	25	33	34	35
Indoor sound pressure (Heat - Hi) (4)	dB(A)	38	40	42	44	44	45	47
Indoor sound pressure (Heat - Lo) (4)	dB(A)	26	27	33	35	37	37	38
Indoor sound pressure (Heat - Q-Lo) (4)	dB(A)	21	21	21	28	33	34	35
Indoor dimension (Height)	mm	290	290	290	290	290	295	295
Indoor dimension (Width)	mm	765	765	765	765	765	1 060	1 060
Indoor dimension (Depth)	mm	214	214	214	214	214	249	249
Indoor net weight	kg	9	9	9	9	9	14	15
nanoe X Generator		Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit		CU-TZ20CKE	CU-TZ25CKE	CU-TZ35CKE	CU-TZ42CKE	CU-TZ50CKE	CU-TZ60CKE	CU-TZ71CKE
Outdoor air flow (Cool)	m ³ /min	29,7	30,0	28,7	31,0	32,7	34,4	44,7
Outdoor air flow (Heat)	m ³ /min	29,7	28,9	29,7	29,5	32,7	35,6	45,8
Outdoor sound pressure (Cool - Hi) (4)	dB(A)	46	47	48	49	48	49	52
Outdoor sound pressure (Cool - Hi) (4)	dB(A)	46	47	48	49	48	49	52
Outdoor sound pressure (Heat - Hi) (4)	dB(A)	47	48	50	51	49	51	54
Outdoor dimension (Height) (5)	mm	542	542	542	542	619	619	695
Outdoor dimension (Width) (5)	mm	780	780	780	780	824	824	875
Outdoor dimension (Depth) (5)	mm	289	289	289	289	299	299	320
Outdoor net weight	kg	24	25	30	31	35	36	45
Piping diameter (Liquid)	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)
Piping diameter (Gas)	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)
Pipe length range	m	3 ~ 15	3 ~ 15	3 ~ 15	3 ~ 15	3 ~ 20	3 ~ 30	3 ~ 30
Elevation difference (in/out) (6)	m	15	15	15	15	15	15	20
Pre-charged pipe length	m	7,5	7,5	7,5	7,5	10	10	10
Additional gas amount	g/m	10	10	10	10	15	15	25
Refrigerant (R32) / CO2 Eq.	kg / T	0,50 / 0,34	0,58 / 0,39	0,68 / 0,46	0,79 / 0,53	1,03 / 0,70	1,22 / 0,82	1,32 / 0,89
Operating range (Cool - Min)	°C	-10	-10	-10	-10	-10	-10	-10
Operating range (Cool - Min)	°C	-10	-10	-10	-10	-10	-10	-10
Operating range (Cool - Max)	°C	+43	+43	+43	+43	+43	+43	+43
Operating range (Heat - Min)	°C	-15	-15	-15	-15	-15	-15	-15
Operating range (Heat - Max)	°C	+24	+24	+24	+24	+24	+24	+24

Dimensions

Wall-mounted TZ super-compact (from 1,6 to 5,0 kW)

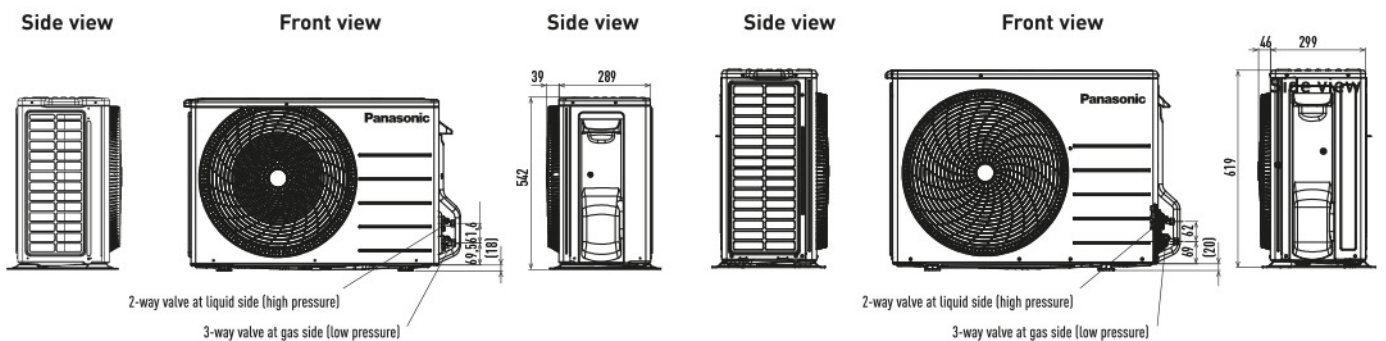
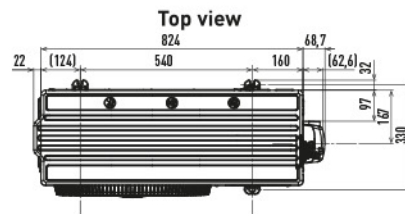
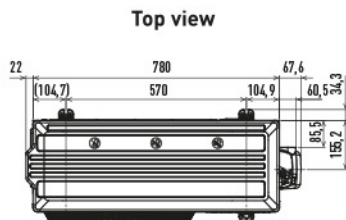


Relative position between the indoor unit and the installation plate



CU-TZ20CKE / CU-TZ25CKE / CU-TZ35CKE / CU-TZ42CKE

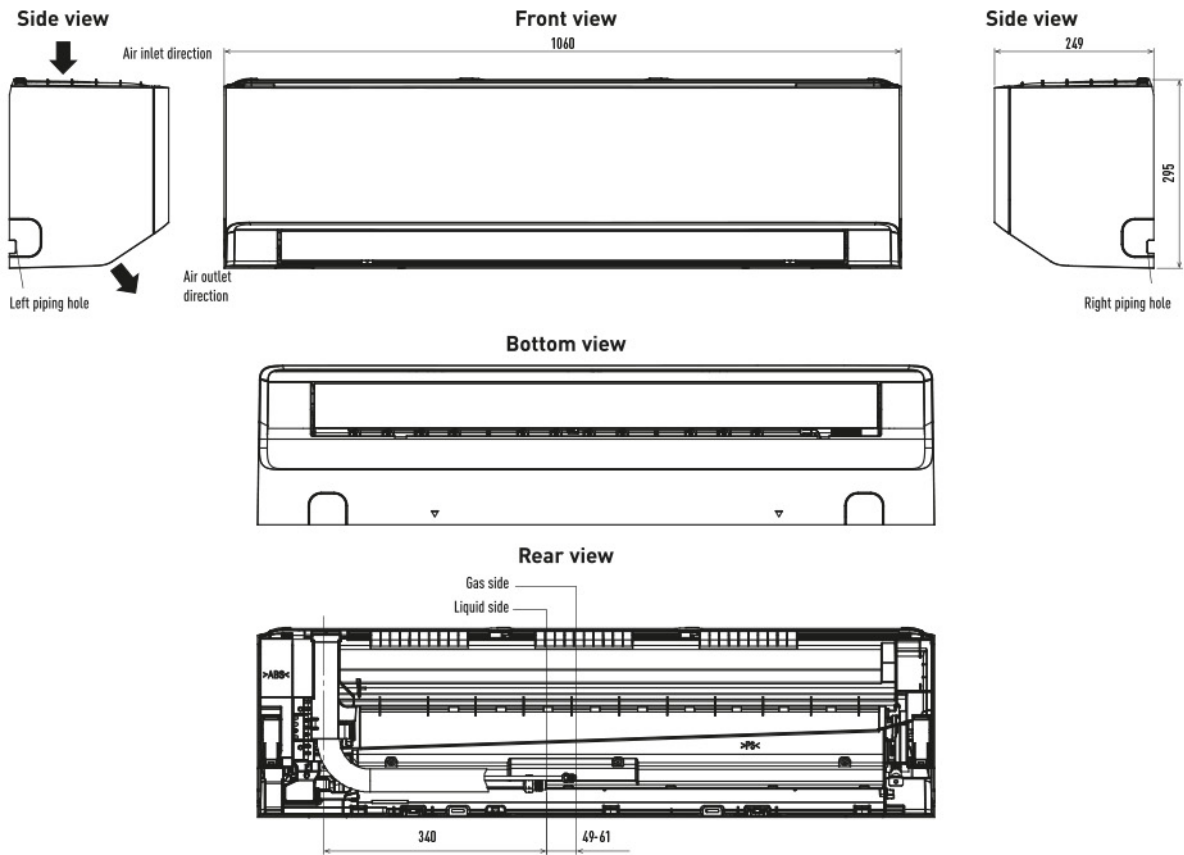
CU-TZ50CKE



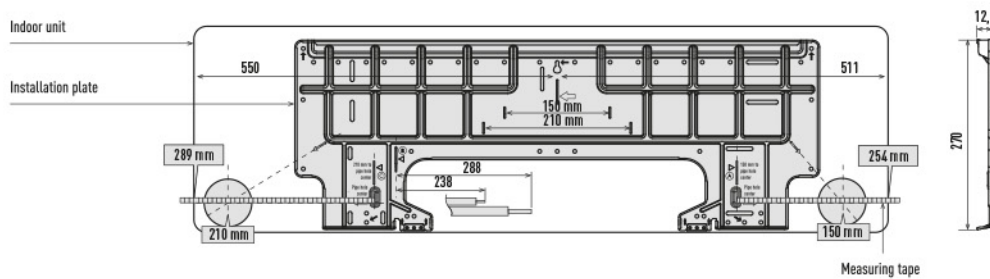
Unit: mm

Dimensions

Wall-mounted TZ super-compact (6,0 and 7,1 kW).

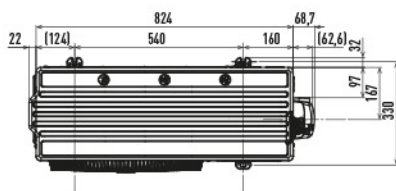


Relative position between the indoor unit and the installation plate



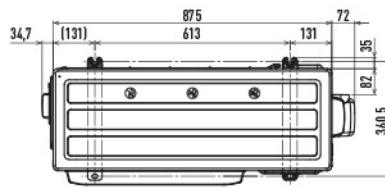
CU-TZ60CKE

Top view



CU-TZ71CKE

Top view



Side view

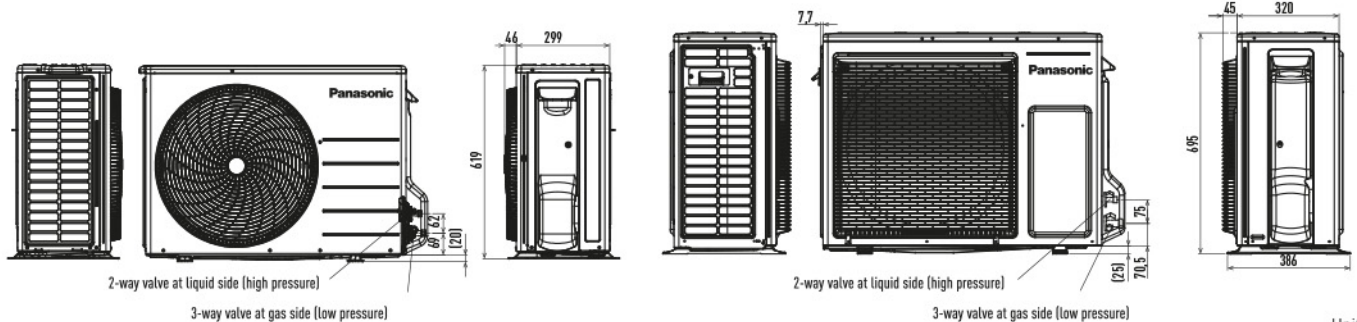
Front view

Side view

Side view

Front view

Side view

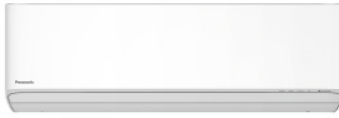


Unit: mm

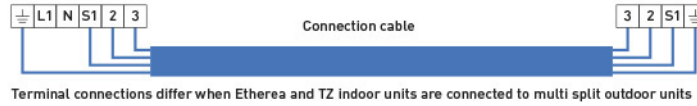
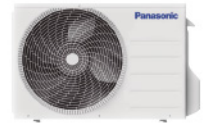
Wiring diagrams

Wall-mounted TZ super-compact kits 1x1.

Indoor unit



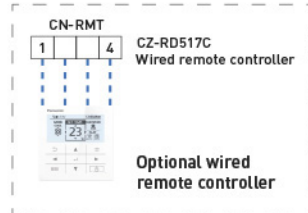
Outdoor unit



Single phase
Power supply
230 V / 50 Hz



Infrared remote controller (included in the delivery)



Power supply to indoor or outdoor depending on model, see table.

Wall-mounted TZ super-compact · R32

Indoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor	Outdoor unit
CS-TZ20CKEW	230 V (indoor)	15/16 A	3 x 1,5 mm ²	4 x 1,5 mm ²	CU-TZ20CKE
CS-TZ25CKEW	230 V (indoor)	15/16 A	3 x 1,5 mm ²	4 x 1,5 mm ²	CU-TZ25CKE
CS-TZ35CKEW	230 V (indoor)	15/16 A	3 x 1,5 mm ²	4 x 1,5 mm ²	CU-TZ35CKE
CS-TZ42CKEW	230 V (indoor)	15/16 A	3 x 1,5 mm ²	4 x 1,5 mm ²	CU-TZ42CKE
CS-TZ50CKEW	230 V (indoor)	16 A	3 x 2,5 mm ²	4 x 2,5 mm ²	CU-TZ50CKE
CS-TZ60CKEW	230 V (indoor)	16 A	3 x 2,5 mm ²	4 x 2,5 mm ²	CU-TZ60CKE
CS-TZ71CKEW	230 V (indoor)	20 A	3 x 2,5 mm ²	4 x 2,5 mm ²	CU-TZ71CKE