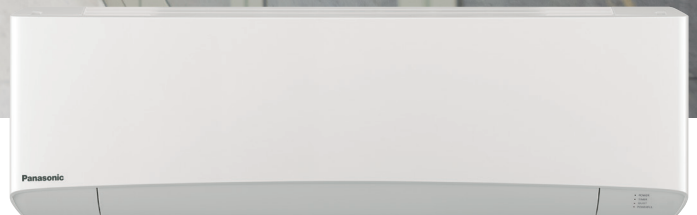


Panasonic

NEW WALL MOUNTED AIR CONDITIONER PROFESSIONAL INVERTER -20°C

Complete line-up with high
efficiency even at -20°C



60th Anniversary

heating & cooling solutions

COMPLETE LINE-UP WITH HIGH EFFICIENCY EVEN AT -20°C



- Designed for 24h/7d a week operation
- Server room logic control PAW-SERVER-PKEA
- Wide range: 5 capacities from 2.5 to 7.1kW
- Highest Energy Rating: A+++ (2.5 to 5kW units)
- Highly efficient performance - even at -20°C outside
- Uses new R32 refrigerant
- High durability rolling bearings
- Additional piping sensors to prevent freezing
- Wired control included

High efficiency all year round

This Wall Mounted air conditioner is designed for professional, critical applications such as computer rooms where reliable cooling inside the room is necessary even when the outside temperature is low.



Complete line-up with high efficiency even at -20°C

Indoor Fan. Cross-Flow-Fan.

- High durability rolling bearings, large size (φ105mm) fan
- High efficiency blade
- Random pitch blade (low sound)

Compressor.

DC2P Panasonic original compressor, with high efficiency and reliability.

Why is the Panasonic R2 Rotary Compressor so efficient?

1. High efficiency motor: the premium silicon steel motor meets industry efficiency requirements
2. Improved lubrication of high volume oil pump: the extended, high volume oil pump in conjunction with a larger capacity oil reservoir provides superior lubrication
3. Accumulator has larger refrigerant capacity: the larger accumulator accommodates generous refrigerant amounts needed in longer pipe length installations





NEW Wall Mounted Professional Inverter -20°C R32 GAS



| KIT | | | KIT-Z25-TKEA | KIT-Z35-TKEA | KIT-Z42-TKEA | KIT-Z50-TKEA | KIT-Z71-TKEA |
|---------------------------------------------|-----------------------|-------------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|
| Cooling capacity | Nominal (Min - Max) | kW | 2,50 [0,85 - 3,00] | 3,50 [0,85 - 4,00] | 4,20 [0,98 - 5,00] | 5,00 [0,98 - 6,00] | 7,10 [0,98 - 8,10] |
| EER ¹⁾ | Nominal (Min - Max) | W/W | 4,90 [5,00 - 4,29] A | 4,07 [5,00 - 3,64] A | 3,82 [4,90 - 3,25] A | 3,60 [3,50 - 3,09] A | 3,17 [2,33 - 3,03] B |
| SEER ²⁾ | | W/W | 8,50 A+++ | 8,50 A+++ | 8,50 A+++ | 8,50 A+++ | 6,10 A++ |
| Pdesign | | kW | 2,5 | 3,5 | 4,2 | 5,0 | 7,1 |
| Input power cooling | Nominal (Min - Max) | kW | 0,51 [0,17 - 0,70] | 0,86 [0,17 - 1,10] | 1,10 [0,20 - 1,54] | 1,39 [0,28 - 1,94] | 2,24 [0,42 - 2,67] |
| Annual energy consumption ³⁾ | | kWh/a | 103 | 144 | 173 | 206 | 407 |
| Heating capacity | Nominal (Min - Max) | kW | 3,40 [0,85 - 5,40] | 4,00 [0,85 - 6,60] | 5,40 [0,98 - 7,25] | 5,80 [0,98 - 8,00] | 8,60 [0,98 - 9,90] |
| Heating capacity at -7°C | | kW | 3,33 | 4,07 | 4,30 | 5,00 | 6,13 |
| COP ¹⁾ | Nominal (Min - Max) | W/W | 4,86 [5,15 - 4,12] A | 4,35 [5,15 - 3,63] A | 4,00 [4,45 - 3,37] A | 4,03 [2,88 - 3,20] A | 3,51 [2,45 - 3,47] B |
| SCOP ²⁾ | | W/W | 4,50 A+ | 4,40 A+ | 4,30 A+ | 4,40 A+ | 4,00 A+ |
| Pdesign at -10°C | | kW | 2,8 | 3,6 | 3,8 | 4,4 | 5,5 |
| Input power heating | Nominal (Min - Max) | kW | 0,70 [0,17 - 1,31] | 0,92 [0,17 - 1,82] | 1,35 [0,22 - 2,15] | 1,44 [0,34 - 2,50] | 2,45 [0,40 - 2,85] |
| Annual energy consumption ³⁾ | | kWh/a | 871 | 1145 | 1237 | 1400 | 1925 |
| Indoor unit | | | CS-Z25TKEA | CS-Z35TKEA | CS-Z42TKEA | CS-Z50TKEA | CS-Z71TKEA |
| Power source | | V | 230 | 230 | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 | 16 | 20 |
| Connection indoor / outdoor | | mm ² | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 2,5 | 4 x 2,5 |
| Air Volume | Cool / Heat | m ³ /min | 10,4 / 11,7 | 10,7 / 12,4 | 18,2 / 20,2 | 19,2 / 21,3 | 20,2 / 21,0 |
| Moisture removal volume | | L/h | 1,5 | 2,0 | 2,4 | 2,8 | 4,1 |
| Sound pressure ⁴⁾ | Cool (Hi / Lo / Q-Lo) | dB(A) | 39 / 25 / 21 | 42 / 28 / 21 | 43 / 32 / 29 | 44 / 37 / 30 | 47 / 38 / 35 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 41 / 27 / 22 | 43 / 30 / 22 | 44 / 35 / 29 | 44 / 37 / 30 | 47 / 38 / 35 |
| Dimension / Net weight | H x W x D | mm / kg | 295 x 919 x 194 / 9 | 295 x 919 x 194 / 10 | 302 x 1120 x 236 / 12 | 302 x 1120 x 236 / 12 | 302 x 1120 x 236 / 13 |
| Outdoor unit | | | CU-Z25TKEA | CU-Z35TKEA | CU-Z42TKEA | CU-Z50TKEA | CU-Z71TKEA |
| Sound pressure ⁴⁾ | Cool / Heat (Hi) | dB(A) | 46 / 48 | 48 / 50 | 48 / 50 | 48 / 50 | 52 / 54 |
| Dimension ⁵⁾ / Net weight | H x W x D | mm / kg | 619 x 824 x 299 / 37 | 619 x 824 x 299 / 38 | 619 x 824 x 299 / 38 | 695 x 875 x 320 / 43 | 695 x 875 x 320 / 49 |
| 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) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 20 | 3 ~ 20 | 3 ~ 20 | 3 ~ 30 | 3 ~ 30 |
| Elevation difference (in/out) ⁶⁾ | | m | 15 | 15 | 15 | 15 | 20 |
| Pipe length for additional gas | | m | 7,5 | 7,5 | 7,5 | 7,5 | 10 |
| Additional gas amount | | g/m | 10 | 10 | 10 | 15 | 25 |
| Refrigerant (R32) | | kg/TCO ₂ Eq. | 0,96 / 0,648 | 1,00 / 0,675 | 1,08 / 0,729 | 1,15 / 0,776 | 1,32 / 0,891 |
| Operating range | Cool Min ~ Max | °C | -20 ~ +43 | -20 ~ +43 | -20 ~ +43 | -20 ~ +43 | -20 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

Accessories

| | |
|---------------------|----------------------------------------------------|
| CZ-TACG1 | NEW Panasonic Wifi kit for internet control |
| CZ-CAPRA1 | RAC interface adapter for integration into P Link |
| PAW-AC-BAC-1 | BacNet interface for TKE and UKE models |
| PAW-AC-MBS-1 | Modbus interface for TKE and UKE models |

Accessories

| | |
|------------------------|----------------------------------------------------------------|
| PAW-WTRAY | Tray for condenser water compatible with base ground support |
| PAW-GRDSTD40 | Outdoor elevation platform |
| PAW-GRDBSE20 | Outdoor base ground support for noise and vibration absorption |
| PAW-SERVER-PKEA | PCB for installation in server rooms with security |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/624/2011. 4) 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. Q-Lo: Quiet mode. Lo: The lowest fan speed. 5) Add 70mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit.



Our heat pumps containing the refrigerant R32 show a drastic reduction in the value of Global Warming Potential (GWP).



Seasonal efficiency in cooling will bring you saving all year while heating. Energy efficiency rank from A+++ to D.



Seasonal efficiency in heating will bring you saving all year while heating. Energy efficiency rank from A+++ to D.



Inverter Plus System classification highlight the Panasonic highest performing systems



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



With Super Quiet technology our devices are much more quiet than a library (30dB(A)).



Down to -20°C in cooling only mode. The air conditioner works in cooling only mode with an outdoor temperature of -20°C.



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



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



This unit is ready to connect to internet and be managed by smartphone, with a powerful and user friendly App to manage the comfort wherever you are.



Ready to be integrated and be managed by Panasonic centralized systems with CZ-CAPRA1



Communication port to integrate the unit to home and building management systems most known standards.



5 Years Warranty. We guarantee the outdoor unit compressors in the entire range for five years.

Panasonic®

To find out how Panasonic cares for you, log on to: www.aircon.panasonic.eu

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

heating & cooling solutions