

Wall Mounted Professional Inverter -20°C

• R32 GAS



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

This Wall Mounted air conditioner is especially designed for professional applications such as computer rooms where cooling inside the room is necessary even when the outside temperature is low. Furthermore this air conditioner has an automatic changeover system, in order to maintain the inside temperature even when sharp outside temperature changes occur.

Technical focus

- R32 gas is more environmentally friendly than R410A
- Aerowings to control air draft direction
- Designed for 24h/7d a week operation
- Up to A+++ in cooling
- Highly efficient even at -20°C
- High durability rolling bearings
- Additional piping sensors to prevent freezing
- Automatic restart

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]	4,07 [5,00 - 3,64]	3,82 [4,90 - 3,25]	3,60 [3,50 - 3,09]	3,17 [2,33 - 3,03]
SEER ²⁾			8,50 A+++	8,50 A+++	8,50 A+++	8,50 A+++	6,10 A++
Pdesign		kW	2,50	3,50	4,20	5,00	7,10
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]	4,35 [5,15 - 3,63]	4,00 [4,45 - 3,37]	4,03 [2,88 - 3,20]	3,51 [2,45 - 3,47]
SCOP ²⁾			4,50 A+	4,40 A+	4,30 A+	4,40 A+	4,00 A+
Pdesign at -10°C		kW	2,80	3,60	3,80	4,40	5,50
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	HxWxD	mm	295x919x194	295x919x194	302x1120x236	302x1120x236	302x1120x236
Net weight		kg	9	10	12	12	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⁾	HxWxD	mm	619x824x299	619x824x299	619x824x299	695x875x320	695x875x320
Net weight		kg	37	38	38	43	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) / CO ₂ Eq.		kg / T	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	Panasonic Comfort Cloud for internet control
CZ-CAPRA1	RAC interface adapter for integration into P-Link
PAW-WTRAY	Tray for condenser water compatible with base ground support

Accessories

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/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit.



SEER and SCOP: For KIT-Z25-TKEA. SUPER QUIET: For KIT-Z25-TKEA. INTERNET CONTROL: Optional.