Free Multi system

NEW! Outdoor units Free Multi system · R32

- Up to 5 indoor units with a single outdoor unit
- Up to 5 rooms with individual control
- Etherea, TZ super-compact, floor console and 4 way 60x60 cassette with nanoe™ X technology to improve protection 24/7
- High energy efficiency class A+++ SEER
- Indoor units compatible with internet and Voice Control

Configure your multi split system in a few steps using our online tool and see all possible combinations.



OUTDOOR UNIT			CU-2Z35CBE	CU-2Z41CBE	CU-2Z50CBE	CU-3Z52CBE	CU-3Z68CBE	CU-4Z68CBE	CU-4Z80CBE	CU-5Z90CBE
Indoor nominal capacity (Min - Max)			**3,2 ~ 6,0 kW**	**3,2 ~ 6,0 kW**	**3,2 ~ 7,7 kW**	**4,5 ~ 9,5 kW**	**4,5 ~ 11,2 kW**	**4,5 ~ 11,5 kW**	**4,5 ~ 14,7 kW**	**4,5 ~ 18,3 kW**
Cooling capacity	Nominal	kW	3,50	4,10	5,00	5,20	6,80	6,80	8,00	9,00
	Min		1,50	1,50	1,50	1,80	1,90	1,90	3,00	2,90
	Max		4,50	5,20	5,40	7,30	8,00	8,80	9,20	11,50
EER [1]	Nominal	W/W	4,61	4,36	4,17	4,77	3,91	4,30	4,04	4,02
	Min		6,00	6,00	6,00	5,00	7,04	5,59	5,66	5,27
	Max		4,09	3,80	3,62	3,35	3,38	3,56	3,21	2,98
SEER [2]			**9,10 A+++**	**9,10 A+++**	**8,70 A+++**	**8,70 A+++**	**8,20 A++**	**8,50 A+++**	**8,50 A+++**	**8,50 A+++**
Pdesign (cooling)		kW	3,50	4,10	5,00	5,20	6,80	6,80	8,00	9,00
Input power	Nominal	kW	0,76	0,94	1,20	1,09	1,74	1,58	1,98	2,24
	Min		0,25	0,25	0,25	0,36	0,27	0,34	0,53	0,55
	Max		1,10	1,37	1,49	2,18	2,37	2,47	2,87	3,86
Annual energy consumption [3]		kWh/a	135	158	201	209	290	280	329	371
Heating capacity	Nominal	kW	4,20	4,60	5,60	6,80	8,50	8,50	9,40	10,40
	Min		1,10	1,10	1,10	1,60	1,70	1,70	2,48	2,48
	Max		5,60	7,00	7,20	8,50	10,40	10,60	10,60	14,50
Heating capacity at -7 °C		kW	3,77	4,18	4,28	5,64	7,05	7,05	7,80	8,62
COP [1]	Nominal	W/W	5,06	4,95	4,63	4,93	4,25	4,62	4,63	4,84
	Min		5,24	5,24	5,24	5,00	4,72	4,72	4,96	4,96
	Max		4,18	3,91	4,00	3,40	3,64	3,96	3,46	3,42
SCOP [2]			**4,80 A++**	**4,80 A++**	**4,60 A++**	**4,70 A++**	**4,60 A++**	**4,60 A++**	**4,70 A++**	**4,68 A++**
Pdesign at -10 °C		kW	3,20	3,50	4,20	5,40	5,60	6,00	7,00	8,50
Input power	Nominal	kW	0,83	0,93	1,21	1,38	2,00	1,84	2,03	2,15
	Min		0,21	0,21	0,21	0,32	0,36	0,36	0,50	0,50
	Max		1,34	1,79	1,80	2,50	2,86	2,68	3,06	4,24
Annual energy consumption [3]		kWh/a	933	1021	1278	1609	1704	1826	2085	2543
Current	Cool / Heat	A	3,60/3,90	4,30/4,30	5,40/5,40	4,80/6,10	7,70/8,80	7,00/8,10	9,50/9,50	10,70/10,10
Power supply		V	230	230	230	230	230	230	230	230
Recommended fuse		A	16	16	16	16	20	20	25	25
Recommended power cable section		mm²	2,5	2,5	2,5	2,5	2,5	2,5	4,0	4,0
Sound pressure [4]	Cool / Heat (Hi)	dB(A)	48/50	48/50	50/52	47/48	51/53	49/52	51/52	53/54
Dimension [5]	H x W x D	mm	619x824x299	619x824x299	619x824x299	795x875x320	795x875x320	795x875x320	999x940x340	999x940x340
Net weight		kg	37	37	37	61	64	64	80	81
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)	1/4 (6,35)
	Gas	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)
Pipe length range total [6]		m	6 ~ 30	6 ~ 30	6 ~ 30	6 ~ 50	6 ~ 60	6 ~ 60	6 ~ 70	6 ~ 80
Pipe length range to one unit		m	3 ~ 20	3 ~ 20	3 ~ 20	3 ~ 25	3 ~ 25	3 ~ 25	3 ~ 25	3 ~ 25
Elevation difference (in / out)		m	10	10	10	15	15	15	15	15
Pre-charged pipe length		m	20	20	20	30	30	30	45	45
Additional gas amount		g/m	15	15	15	20	20	20	20	20
Refrigerant (R32) / CO_2 Eq.		kg / T	1,18/0,797	1,18/0,797	1,18/0,797	1,92/1,296	2,25/1,519	2,25/1,519	2,72/1,836	2,72/1,836
Operating range	Cool Min ~ Max	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 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 units shows the value measured of a position 1 m in front and 1 m in rear side of the main body. The sound pressure is measured in accordance with JIS C 9612. 5) Add 70 or 95 mm for piping port. 6) Minimum piping length is 3 meters per indoor unit.

Possible outdoor / indoor units combinations

Rooms	Outdoor unit	Indoor capacity connected (Min - Max)	Wall-mounted Etherea							Wall-mounted TZ super-compact								Floor console				4 way 60x60 cassette					Low static pressure hide-away				
			16	20	25	35	42	50	71	16	20	25	35	42	50	60	71	20	25	35	50	20	25	35	50	60	20	25	35	50	60
2	CU-2Z35CBE	3,2 ~ 6,0 kW	✔	✔	✔	✔				✔	✔	✔	✔					✔	✔	✔		✔ [1]	✔ [1]	✔ [1]			✔	✔	✔		
	CU-2Z41CBE	3,2 ~ 6,0 kW	✔	✔	✔	✔				✔	✔	✔	✔					✔	✔	✔		✔ [1]	✔ [1]	✔ [1]			✔	✔	✔		
	CU-2Z50CBE	3,2 ~ 7,7 kW	✔	✔	✔	✔	✔ [1]	✔ [1]		✔	✔	✔	✔	✔ [1]	✔ [1]			✔	✔	✔	✔ [1]	✔ [1]	✔ [1]	✔ [1]	✔ [1]		✔	✔	✔	✔ [1]	
3	CU-3Z52CBE	4,5 ~ 9,5 kW	✔	✔	✔	✔	✔ [1]	✔ [1]		✔	✔	✔	✔	✔ [1]	✔ [1]							✔ [1]	✔ [1]	✔ [1]	✔ [1]		✔	✔	✔	✔ [1]	
	CU-3Z68CBE	4,5 ~ 11,2 kW	✔	✔	✔	✔	✔ [1]	✔ [1]		✔	✔	✔	✔	✔ [1]	✔ [1]	✔ [3]						✔ [1]	✔ [1]	✔ [1]	✔ [1]	✔ [2]	✔	✔	✔	✔ [1]	✔ [3]
4	CU-4Z68CBE	4,5 ~ 11,5 kW	✔	✔	✔	✔	✔ [1]	✔ [1]		✔	✔	✔	✔	✔ [1]	✔ [1]	✔ [3]						✔ [1]	✔ [1]	✔ [1]	✔ [1]	✔ [2]	✔	✔	✔	✔ [1]	✔ [3]
	CU-4Z80CBE	4,5 ~ 14,7 kW	✔	✔	✔	✔	✔ [1]	✔ [1]	✔ [4]	✔	✔	✔	✔	✔ [1]	✔ [1]	✔ [3]	✔ [4]					✔ [1]	✔ [1]	✔ [1]	✔ [1]	✔ [2]	✔	✔	✔	✔ [1]	✔ [3]
5	CU-5Z90CBE	4,5 ~ 18,3 kW	✔	✔	✔	✔	✔ [1]	✔ [1]	✔ [4]	✔	✔	✔	✔	✔ [1]	✔ [1]	✔ [3]	✔ [4]					✔ [1]	✔ [1]	✔ [1]	✔ [1]	✔ [2]	✔	✔	✔	✔ [1]	✔ [3]

1) Pipe reducer CZ-MA1PA required. 2) Liquid socket tube and gas socket tubes included in the units required for indoor unit and pipe expander CZ-MA2PA required for outdoor unit. 3) Pipe expander CZ-MA2PA required. 4) Pipe reducer CZ-MA3PA and pipe expander CZ-MA2PA required.

R32 REFRIGERANT | INVERTER+ | R2 ROTARY COMPRESSOR | -15 °C HEATING MODE | R22 → R410A R22 RENEWAL | 5 YEARS COMPRESSOR WARRANTY



Optional wired remote controller.
CZ-RD517C

NEW! Wall-mounted Etherea	Indoor unit graphite grey	Indoor unit silver	Indoor unit matt white	Cooling capacity	Heating capacity	Connection in. / out.	Sound pressure [1]	Dimension / Net weight	Piping diameter
							Cool — Heat (Hi/Lo/Q-Lo)	H x W x D	Liquid / Gas
				kW	kW	mm²	dB(A)	mm / kg	Inch (mm)
1,6 kW	—	—	CS-MZ16CKE	1,60	2,60	4x1,5	37/26/21— 38/27/21	295 x 870 x 229 / 10	1/4 (6,35) / 3/8 (9,52)
2,0 kW	CS-XZ20CKEW-H	CS-XZ20CKEW	CS-Z20CKEW	2,00	3,20	4x1,5	37/26/21 — 38/27/21	295 x 870 x 229 / 10	1/4 (6,35) / 3/8 (9,52)
2,5 kW	CS-XZ25CKEW-H	CS-XZ25CKEW	CS-Z25CKEW	2,50	3,60	4x1,5	41/27/21 — 41/29/21	295 x 870 x 229 / 10	1/4 (6,35) / 3/8 (9,52)
3,5 kW [2]	CS-XZ35CKEW-H	CS-XZ35CKEW	CS-Z35CKEW	3,50	4,50	4x1,5	44/30/21 — 45/35/21	295 x 870 x 229 / 11	1/4 (6,35) / 3/8 (9,52)
4,2 kW [3]	CS-XZ42CKEW-H	—	CS-Z42CKEW	4,20	5,60	4x1,5	44/33/27 — 45/37/31	295 x 870 x 229 / 10	1/4 (6,35) / 3/8 (9,52)
5,0 kW [4]	—	CS-XZ50CKEW	CS-Z50CKEW	5,00	6,80	4x2,5	44/39/32 — 46/39/32	295 x 1040 x 244 / 12	1/4 (6,35) / 3/8 (9,52)
7,1 kW	—	—	CS-Z71CKEW	7,10	8,70	4x2,5	49/40/32 — 49/40/32	295 x 1040 x 244 / 13	1/4 (6,35) / 1/2 (12,70)



Optional wired remote controller.
CZ-RD517C

NEW! Wall-mounted TZ super-compact	Indoor unit	Cooling capacity	Heating capacity	Connection in. / out.	Sound pressure [1]	Dimension / Net weight	Piping diameter
					Cool — Heat (Hi/Lo/Q-Lo)	H x W x D	Liquid / Gas
		kW	kW	mm²	dB(A)	mm / kg	Inch (mm)
1,6 kW	CS-MTZ16CKE	1,60	2,60	4x1,5	38/27/22 — 39/28/24	290 x 765 x 214 / 9	1/4 (6,35) / 3/8 (9,52)
2,0 kW	CS-TZ20CKEW	2,00	3,20	4x1,5	39/27/22 — 40/28/23	290 x 765 x 214 / 9	1/4 (6,35) / 3/8 (9,52)
2,5 kW	CS-TZ25CKEW	2,50	3,60	4x1,5	42/28/22 — 44/35/23	290 x 765 x 214 / 9	1/4 (6,35) / 3/8 (9,52)
3,5 kW [2]	CS-TZ35CKEW	3,50	4,50	4x1,5	44/32/22 — 44/35/23	290 x 765 x 214 / 9	1/4 (6,35) / 3/8 (9,52)
4,2 kW	CS-TZ42CKEW	4,20	5,60	4x1,5	44/33/27 — 46/37/30	290 x 765 x 214 / 9	1/4 (6,35) / 3/8 (9,52)
5,0 kW	CS-TZ50CKEW	5,00	6,80	4x2,5	44/39/35 — 46/39/35	290 x 765 x 214 / 9	1/4 (6,35) / 3/8 (9,52)
6,0 kW	CS-TZ60CKEW	6,00	8,50	4x2,5	45/39/36 — 47/39/36	295 x 1060 x 249 / 14	1/4 (6,35) / 1/2 (12,70)
7,1 kW	CS-TZ71CKEW	7,10	8,70	4x2,5	49/40/37 — 49/40/37	295 x 1060 x 249 / 15	1/4 (6,35) / 1/2 (12,70)



Optional wired remote controller.
CZ-RD517C

NEW! Floor console [5]	Indoor unit	Cooling capacity	Heating capacity	Connection in. / out.	Sound pressure [6]	Dimension / Net weight	Piping diameter
					Cool — Heat (Hi/Lo/Q-Lo)	H x W x D	Liquid / Gas
		kW	kW	mm²	dB(A)	mm / kg	Inch (mm)
2,0 kW	CS-MZ20CFEA	2,00	3,20	4x1,5	39/27/22 — 39/27/21	600 x 750 x 207 / 13	1/4 (6,35) / 3/8 (9,52)
2,5 kW	CS-Z25CFEAW	2,50	3,60	4x1,5	40/27/22 — 40/27/21	600 x 750 x 207 / 13	1/4 (6,35) / 3/8 (9,52)
3,5 kW [2]	CS-Z35CFEAW	3,50	4,50	4x1,5	41/28/22 — 41/28/21	600 x 750 x 207 / 13	1/4 (6,35) / 3/8 (9,52)
5,0 kW	CS-Z50CFEAW	5,00	5,30	4x1,5	44/33/29 — 48/35/31	600 x 750 x 207 / 13	1/4 (6,35) / 3/8 (9,52)



Optional wired remote controller.
CZ-RTC6W



Optional wired remote controller.
CZ-RTC6



Panel, white (RAL9003).
CZ-KPY4W



Panel, graphite black (RAL9011).
CZ-KPY4B

Panels (sold separately)

4 way 60x60 cassette*	Indoor unit (Panel CZ-KPY4)	Cooling capacity	Heating capacity	Connection in. / out.	Sound pressure [7]	Dimension / Net weight		Piping diameter
					Cool — Heat (Hi/Lo/Q-Lo)	Indoor H x W x D	Panel H x W x D	Liquid / Gas
		kW	kW	mm²	dB(A)	mm / kg	mm / kg	Inch (mm)
2,0 kW	S-M20PY3E	2,00	3,20	4x1,5	33/30/27 — 33/30/27	243 x 575 x 575 / 15	30 x 625 x 625 / 2,8	1/4 (6,35) / 3/8 (9,52)
2,5 kW	S-25PY3E	2,50	3,60	4x1,5	33/30/27 — 33/30/27	243 x 575 x 575 / 15	30 x 625 x 625 / 2,8	1/4 (6,35) / 3/8 (9,52)
3,5 kW [2]	S-36PY3E	3,50	4,50	4x1,5	36/32/27 — 36/32/27	243 x 575 x 575 / 15	30 x 625 x 625 / 2,8	1/4 (6,35) / 3/8 (9,52)
5,0 kW [4]	S-50PY3E	5,00	6,80	4x1,5	41/36/29 — 41/36/29	243 x 575 x 575 / 15	30 x 625 x 625 / 2,8	1/4 (6,35) / 3/8 (9,52)
6,0 kW	S-60PY3E	6,00	8,50	4x1,5	45/39/33 — 45/39/33	243 x 575 x 575 / 15	30 x 625 x 625 / 2,8	3/8 (9,52) / 1/2 (12,70)

*Compatible with Commercial control and connectivity accessories only. For detailed information go to the control systems section.



Optional wireless control kit.
CZ-RL511D

NEW! Low static pressure hide-away	Indoor unit	Cooling capacity	Heating capacity	Connection in. / out.	Sound pressure [8]	Dimension / Net weight	Piping diameter
					Cool — Heat (Hi/Lo/Q-Lo)	H x W x D	Liquid / Gas
		kW	kW	mm²	dB(A)	mm / kg	Inch (mm)
2,0 kW	CS-MZ20CD3EA	2,00	3,20	4x1,5	34/29/26 — 36/29/26	200 x 750 x 640 / 19	1/4 (6,35) / 3/8 (9,52)
2,5 kW	CS-Z25CD3EAW	2,50	3,60	4x1,5	35/29/26 — 37/29/26	200 x 750 x 640 / 19	1/4 (6,35) / 3/8 (9,52)
3,5 kW [2]	CS-Z35CD3EAW	3,50	4,50	4x1,5	35/29/26 — 37/29/26	200 x 750 x 640 / 19	1/4 (6,35) / 3/8 (9,52)
5,0 kW [4]	CS-Z50CD3EAW	5,00	6,80	4x1,5	41/31/28 — 41/32/29	200 x 750 x 640 / 19	1/4 (6,35) / 3/8 (9,52)
6,0 kW	CS-Z60CD3EAW	6,00	8,50	4x1,5	41/32/29 — 43/34/31	200 x 750 x 640 / 19	1/4 (6,35) / 1/2 (12,70)

1) The sound pressure of the indoor unit shows the value measured of a position of 1 m in front of the main body and 0,8 m below the unit. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 2) Heating capacity in combination with Free Multi outdoor units except with CU-2Z35CBE. In this case, the heating capacity is 4,20 kW. 3) Heating capacity in combination with Free Multi outdoor units except with CU-2Z50CBE. In this case, the heating capacity is 5,00 kW. 4) Heating capacity in combination with Free Multi outdoor units except with CU-2Z35CBE. In this case, the heating capacity is 5,30 kW. 5) Compatible only with 2 ports R32 outdoor CU-2Z35CBE / CU-2Z41CBE / CU-2Z50CBE. Minimum quantity of connection: 2 indoor units. 6) The sound pressure of the units shows the value measured of a position 1 m in front of the main body and 1 m above floor. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 7) The sound pressure of the indoor unit shows the value measured of a position of 1,5 m below the unit. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 8) The sound pressure of the indoor unit shows the value measured of a position of 1,5 m below the unit with 1 m duct on the suction side and 2 m duct on the discharge side. The sound pressure is measured in accordance with JIS C 9612.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.