

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.



Panasonic offers widest range in multi split systems

The multi split solution offers high flexibility, as 2 to 5 indoor units can be connected to a single outdoor unit. The wide range of compatible indoor units includes Etherea and TZ wall-mounted units, floor console, 4 way 60x60 cassette and low static pressure hide-away.

Full flexibility up to 9,0 kW and up to 5 ports with wide range of indoor units including high performance Etherea indoor units, reaching up to A+++ / A++.

Line up		Multi Z
Capacities		8 units (3,5 ~ 9,0 kW)
Indoor unit ports		2~5
Efficiency up to		A+++ / A++
Indoor units	Etherea	Yes
	TZ super-compact	Yes
	Floor console	Yes
	Cassette	Yes
	Hide-away	Yes

Why a multi split is better than several separate split units

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

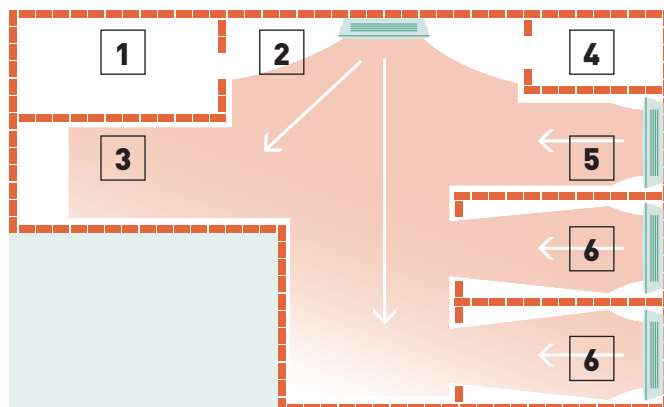
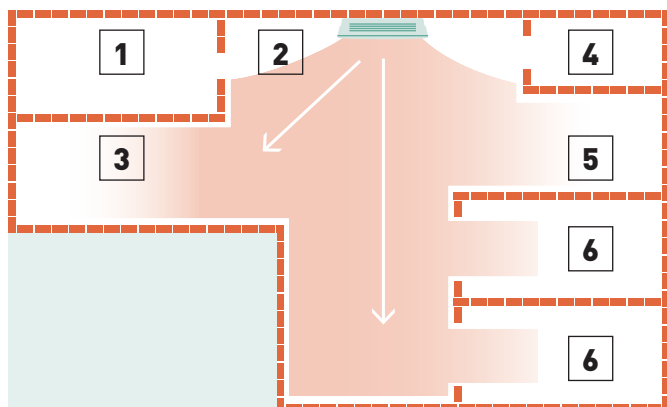
Solution with single split.

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.

1. Laundry room. 2. Entrance. 3. Kitchen / dining area. 4. Bathroom. 5. Living room. 6. Bedroom.



Configure in a few steps your Free Multi system with our online tool.



Outdoor unit Free Multi system Z · R32

- Up to 5 indoor units with a single outdoor unit
- Up to 5 rooms with individual control
- Etherea, floor console and 4 way 60x60 cassette with nanoe™ X technology to improve protection 24/7
- Wide choice of indoor units to adapt to each room
- High energy efficiency class A+++ SEER
- Flexible installation, compact units and large connection distance
- Indoor units compatible with internet and voice control



Outdoor unit			CU-2Z35TBE	CU-2Z41TBE	CU-2Z50TBE	CU-3Z52TBE	CU-3Z68TBE	CU-4Z68TBE	CU-4Z80TBE	CU-5Z90TBE
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	4,86	4,56	4,24	4,77	3,66	4,39	4,04	4,09
	Min		6,00	6,00	6,00	—	7,04	5,59	5,66	5,27
	Max		4,09	3,80	3,62	—	3,38	3,56	3,21	2,98
SEER ²⁾			8,50 A+++	8,50 A+++	8,50 A+++	8,50 A+++	8,00 A++	8,00 A++	7,90 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	0,72	0,90	1,18	1,09	1,86	1,55	1,98	2,20
	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	144	169	206	214	298	298	990	1100
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	3,30	3,00	4,20	3,40
	Max		5,60	7,00	7,20	8,30	10,40	10,60	10,60	14,50
Heating capacity at -7 °C		kW	—	—	—	3,95	4,45	4,45	—	—
COP ¹⁾	Nominal	W/W	4,88	4,79	4,63	4,63	3,95	4,47	4,63	4,84
	Min		5,24	5,24	5,24	5,00	5,32	5,17	6,00	6,42
	Max		4,18	3,91	4,00	3,82	3,64	3,96	3,46	3,42
SCOP ²⁾			4,60 A++	4,60 A++	4,60 A++	4,20 A+	4,20 A+	4,20 A+	4,70 A++	4,68 A++
Pdesign at -10 °C		kW	3,20	3,50	4,20	5,00	5,20	5,80	6,80	8,50
Input power	Nominal	kW	0,86	0,96	1,21	1,47	2,15	1,90	2,03	2,15
	Min		0,21	0,21	0,21	0,32	0,62	0,58	0,70	0,53
	Max		1,34	1,79	1,80	2,17	2,86	2,68	3,06	4,24
Annual energy consumption ³⁾		kWh/a	974	1065	1278	1667	1733	1933	2026	2543
Current	Cool / Heat	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	9,50/9,50	10,50/10,10
Power supply		V	230	230	230	230	230	230	230	230
Recommended fuse		A	16	16	16	16	16	20	20	25
Recommended power cable section		mm ²	2,5	2,5	2,5	2,5	2,5	2,5	2,5	4,0
Sound pressure ⁴⁾	Cool / Heat (Hi)	dB(A)	48/50	48/50	50/52	47/48	51/52	49/50	51/52	53/54
Dimension ⁵⁾	H x W x D	mm	619x824x299	619x824x299	619x824x299	795x875x320	795x875x320	795x875x320	999x940x340	999x940x340
Net weight		kg	39	39	39	71	71	72	80	81
Piping diameter	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}
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
Pipe length for additional gas		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	1,12/0,756	1,12/0,756	1,12/0,756	2,10/1,418	2,10/1,418	2,10/1,418	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 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 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-2Z35TBE	3,2 ~ 6,0 kW	●	●	●	●				●	●	●	●				●	●	●		1)	1)	1)			●	●	●				
	CU-2Z41TBE	3,2 ~ 6,0 kW	●	●	●	●				●	●	●	●				●	●	●		1)	1)	1)			●	●	●				
	CU-2Z50TBE	3,2 ~ 7,7 kW	●	●	●	●	1)	1)		●	●	●	●	1)	1)		●	●	●	1)	1)	1)	1)	1)		●	●	●	1)			
3	CU-3Z52TBE	4,5 ~ 9,5 kW	●	●	●	●	1)	1)		●	●	●	●	1)	1)						1)	1)	1)	1)	1)	●	●	●	1)			
	CU-3Z68TBE	4,5 ~ 11,2 kW	●	●	●	●	1)	1)		●	●	●	●	1)	1)	2)					1)	1)	1)	1)	1)	2)	●	●	●	1)	2)	
4	CU-4Z68TBE	4,5 ~ 11,5 kW	●	●	●	●	1)	1)		●	●	●	●	1)	1)	2)					1)	1)	1)	1)	1)	2)	●	●	●	1)	2)	
	CU-4Z80TBE	4,5 ~ 14,7 kW	●	●	●	●	1)	1)	3)	●	●	●	●	1)	1)	2)	3)				1)	1)	1)	1)	1)	2)	●	●	●	1)	2)	
5	CU-5Z90TBE	4,5 ~ 18,3 kW	●	●	●	●	1)	1)	3)	●	●	●	●	1)	1)	2)	3)				1)	1)	1)	1)	1)	2)	●	●	●	1)	2)	

1) Pipe reducer CZ-MA1PA required. 2) Pipe reducer CZ-MA2PA required. 3) Pipe reducers CZ-MA2PA and CZ-MA3PA required.





Optional wired
remote controller.
CZ-RD517C

INTERNET CONTROL: Built-in Wi-Fi.



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	
				kW	kW		mm²	Cool — Heat (Hi/Lo/S-Lo)	HxWxD	Liquid / Gas pipe
								dB[A]	mm / kg	Inch (mm)
1,6 kW	—	—	CS-MZ16XKE	1,60	2,60	4 x 1,5	38/26/21 — 39/27/21	295 x 870 x 229/10	1/4 {6,35}/3/8 {9,52}	
2,0 kW	CS-XZ20XKEW-H	CS-XZ20XKEW	CS-Z20XKEW	2,00	3,20	4 x 1,5	39/26/21 — 40/27/21	295 x 870 x 229/10	1/4 {6,35}/3/8 {9,52}	
2,5 kW	CS-XZ25XKEW-H	CS-XZ25XKEW	CS-Z25XKEW	2,50	3,60	4 x 1,5	41/27/21 — 43/29/21	295 x 870 x 229/10	1/4 {6,35}/3/8 {9,52}	
3,5 kW ²⁾	CS-XZ35XKEW-H	CS-XZ35XKEW	CS-Z35XKEW	3,50	4,50	4 x 1,5	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-Z42XKEW	4,20	5,60	4 x 1,5	44/33/27 — 45/37/31	295 x 870 x 229/10	1/4 {6,35}/1/2 {12,70}	
5,0 kW ⁴⁾	—	CS-XZ50XKEW	CS-Z50XKEW	5,00	6,80	4 x 2,5	44/39/32 — 46/39/32	295 x 1040 x 244/12	1/4 {6,35}/1/2 {12,70}	
7,1 kW	—	—	CS-Z71XKEW	7,10	8,70	4 x 2,5	49/40/32 — 49/40/32	295 x 1040 x 244/14	1/4 {6,35}/5/8 {15,88}	



Optional wired
remote controller.
CZ-RD517C

INTERNET CONTROL: Built-in Wi-Fi.



Wall-mounted TZ super-compact	Indoor unit	Cooling capacity	Heating capacity	Connection in. / out.	Sound pressure ¹⁾	Dimension / Net weight	Piping diameter	
		kW	kW		mm²	Cool — Heat (Hi/L0/S-Lo)	HxWxD	Liquid / Gas pipe
						dB[A]	mm / kg	Inch (mm)
1,6 kW	CS-MTZ16WKE	1,60	2,60	4 x 1,5	38/27/22 — 39/28/24	290 x 779 x 209/8	1/4 {6,35}/3/8 {9,52}	
2,0 kW	CS-TZ20WKEW	2,00	2,70	4 x 1,5	37/25/20 — 38/26/22	290 x 779 x 209/8	1/4 {6,35}/3/8 {9,52}	
2,5 kW	CS-TZ25WKEW	2,50	3,30	4 x 1,5	40/26/20 — 40/27/22	290 x 779 x 209/8	1/4 {6,35}/3/8 {9,52}	
3,5 kW ²⁾	CS-TZ35WKEW	3,50	4,00	4 x 1,5	42/30/20 — 42/33/22	290 x 779 x 209/8	1/4 {6,35}/3/8 {9,52}	
4,2 kW	CS-TZ42WKEW	4,20	5,00	4 x 1,5	44/31/29 — 44/35/34	290 x 779 x 209/8	1/4 {6,35}/1/2 {12,70}	
5,0 kW	CS-TZ50WKEW	5,00	5,80	4 x 2,5	44/37/33 — 44/37/33	290 x 779 x 209/8	1/4 {6,35}/1/2 {12,70}	
6,0 kW	CS-TZ60WKEW	6,00	7,00	4 x 2,5	45/37/34 — 45/37/34	302 x 1102 x 244/13	1/4 {6,35}/1/2 {12,70}	
7,1 kW	CS-TZ71WKEW	7,10	8,60	4 x 2,5	47/38/35 — 47/38/35	302 x 1102 x 244/13	1/4 {6,35}/5/8 {15,88}	



Optional wired
remote controller.
CZ-RD517C

INTERNET CONTROL: Optional.



Floor console ⁵⁾	Indoor unit	Cooling capacity	Heating capacity	Connection in. / out.	Sound pressure ⁶⁾	Dimension / Net weight	Piping diameter	
		kW	kW		mm ²	Cool — Heat (Hi/Lo/S-Lo)	H x W x D	Liquid / Gas pipe
						dB[A]	mm / kg	Inch (mm)
2,0 kW	CS-MZ20UFEA	2,00	3,20	4 x 1,5	39 / 27 / 22 — 39 / 27 / 21	600 x 750 x 207 / 13	1/4 {6,35} / 3/8 {9,52}	
2,5 kW	CS-Z25UFEAW	2,50	3,60	4 x 1,5	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-Z35UFEAW	3,50	4,50	4 x 1,5	41 / 28 / 22 — 41 / 28 / 21	600 x 750 x 207 / 13	1/4 {6,35} / 3/8 {9,52}	
5,0 kW	CS-Z50UFEAW	5,00	5,30	4 x 1,5	44 / 33 / 29 — 48 / 35 / 31	600 x 750 x 207 / 13	1/4 {6,35} / 1/2 {12,70}	



Optional wired
remote controller.
CZ-RTC6



Panel (sold separately).
CZ-KPY4

INTERNET CONTROL and BMS CONNECTIVITY: Optional.



NEW 4 Way 60x60 cassette*	Indoor unit (Panel CZ-KPY4)	Cooling capacity	Heating capacity	Connection in. / out.	Sound pressure ⁷⁾	Dimension / Net weight		Piping diameter	
		kW	kW		mm ²	Cool — Heat (Hi/Lo/S-Lo)	Indoor H x W x D	Panel H x W x D	Liquid / Gas pipe
						dB(A)	mm / kg	mm / kg	Inch (mm)
2,0 kW	S-M20PY3E	2,00	3,20	4 x 1,5	33/30/27 — 33/30/27	243x575x575/15	30 x 625 x 625/2,8	1/4{6,35}/1/2{12,70}	
2,5 kW	S-25PY3E	2,50	3,60	4 x 1,5	33/30/27 — 33/30/27	243x575x575/15	30 x 625 x 625/2,8	1/4{6,35}/1/2{12,70}	
3,5 kW ²⁾	S-36PY3E	3,50	3,60	4 x 1,5	36/32/27 — 36/32/27	243x575x575/15	30 x 625 x 625/2,8	1/4{6,35}/1/2{12,70}	
5,0 kW ⁴⁾	S-50PY3E	5,00	6,80	4 x 1,5	41/36/29 — 41/36/29	243x575x575/15	30 x 625 x 625/2,8	1/4{6,35}/1/2{12,70}	
6,0 kW	S-60PY3E	6,00	8,50	4 x 1,5	45/39/33 — 45/39/33	243x575x575/15	30 x 625 x 625/2,8	3/8{9,52}/5/8{15,88}	

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



Optional wireless
control kit.
CZ-RL511D

INTERNET CONTROL and BMS CONNECTIVITY: Optional.



Low static pressure hide-away	Indoor unit	Cooling capacity	Heating capacity	Connection in. / out.	Sound pressure ⁸⁾	Dimension / Net weight	Piping diameter	
		kW	kW		mm²	Cool — Heat (Hi/Lo/S-Lo)	H x W x D	Liquid / Gas pipe
2,0 kW	CS-MZ20UD3EA	2,00	3,20	4 x 1,5	34/29/26 — 36/29/26	200 x 750 x 640/19	1/4 (6,35) / 3/8 (9,52)	
2,5 kW	CS-Z25UD3EAW	2,50	3,60	4 x 1,5	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-Z35UD3EAW	3,50	4,50	4 x 1,5	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-Z50UD3EAW	5,00	6,80	4 x 1,5	41/31/28 — 41/32/29	200 x 750 x 640/19	1/4 (6,35) / 1/2 (12,70)	
6,0 kW	CS-Z60UD3EAW	6,00	8,50	4 x 1,5	43/32/29 — 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 at 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-Z235TBE. In this case, the heating capacity is 4,20 kW. 3) Heating capacity in combination with Free Multi outdoor units except with CU-Z250TBE. In this case, the heating capacity is 5,30 kW. 4) Heating capacity in combination with Free Multi outdoor units except with CU-Z235TBE. In this case, the heating capacity is 5,30 kW. 5) Compatible only with 2 ports R32 outdoor CU-Z235TBE / CU-Z241TBE / CU-Z250TBE. Minimum quantity of connection: 2 indoor units. 6) The sound pressure of the units shows the value measured at 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 at 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 at 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.

* Available in Spring 22.

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.