

Multi Split and Free Multi System



If air conditioning requirements exceed the ambit of a single room, Panasonic offers an extensive range of possibilities with up to 5 indoor units connected to a single outdoor unit.

Panasonic offers widest range in Multi Split systems

Two different ranges of Multi split outdoor units. to meet the needs of your project. From 3.5 to 9.0 kW. up to 5 indoor units connectable to a single outdoor unit.

Free Multi Z				Multi wall-mounted TZ super-compact				
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++				From 4.1 to 5.2 kW for TZ super-compact unit. reaches A++ / A+				
Line up	Capacities	Indoor unit ports	Efficiency up to	Indoor units				
				Etherea	TZ super-compact	Floor console	Cassette	Hide-away
Multi Z	8 units (3.5 ~ 9.0 kW)	2~5	A+++ / A++	Yes	Yes	Yes	Yes	Yes
Multi TZ	3 units (4.1 ~ 5.2 kW)	2~3	A++ / A+		Yes			

Multi Split solutions

Day and Night	Simultaneous
Ideal for 2 day and night areas. Simultaneous use possible.	When indoor units are most time working at same time.

Why a Multi Split is better than several separate split units

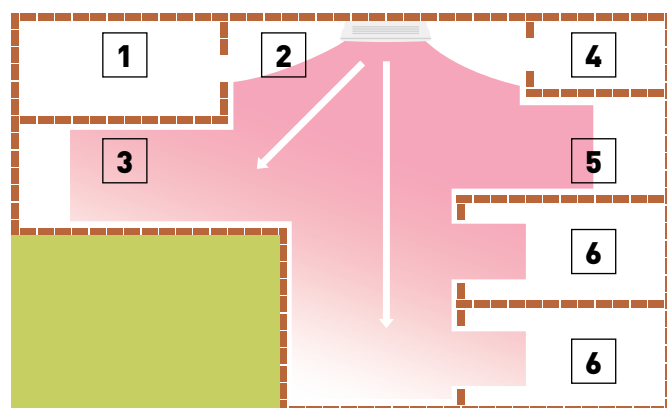
Up to 5 indoor units with a single outdoor unit.

- 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.

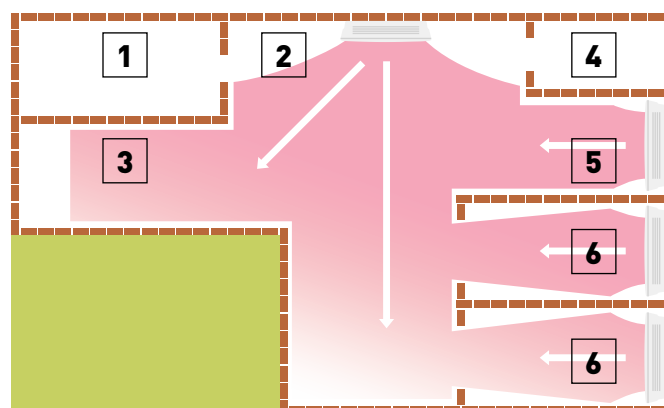
One indoor unit is connected to one outdoor unit. The indoor unit is placed in the main hallway and heats the entire house. Certain rooms may not be perfectly heated, which causes inadequate comfort.



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

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.





Outdoor unit Free Multi System Z • R32

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
Unit			CU-2Z35TBE	CU-2Z41TBE	CU-2Z50TBE	CU-3Z52TBE	CU-3Z68TBE	CU-4Z68TBE	CU-4Z80TBE	CU-5Z90TBE
Cooling capacity	Nom. (Min - Max)	kW	3.50[1.50-4.50]	4.10[1.50-5.20]	5.00[1.50-5.40]	5.20[1.80-7.30]	6.80[1.90-8.00]	6.80[1.90-8.80]	8.00[3.00-9.20]	9.00[2.90-11.50]
EER ¹⁾	Nom. (Min - Max)	W/W	4.86[6.00-4.09]	4.56[6.00-3.80]	4.24[6.00-3.62]	4.77	3.66[7.04-3.38]	4.39[5.59-3.56]	4.04[5.66-3.21]	4.09[5.27-2.98]
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 cooling	Nom. (Min - Max)	kW	0.72[0.25-1.10]	0.90[0.25-1.37]	1.18[0.25-1.49]	1.09[0.36-2.18]	1.86[0.27-2.37]	1.55[0.34-2.47]	1.98[0.53-2.87]	2.20[0.55-3.86]
Annual energy consumption ³⁾		kWh/a	144	169	206	214	298	298	990	1100
Heating capacity	Nom. (Min - Max)	kW	4.20[1.10-5.60]	4.60[1.10-7.00]	5.60[1.10-7.20]	6.80[1.60-8.30]	8.50[3.30-10.40]	8.50[3.00-10.60]	9.40[4.20-10.60]	10.40[3.40-14.50]
Heating capacity at -7 °C		kW	—	—	—	3.95	4.45	4.45	—	—
COP ¹⁾	Nom. (Min - Max)	W/W	4.88[5.24-4.18]	4.79[5.24-3.91]	4.63[5.24-4.00]	4.63[5.00-3.82]	3.95[5.32-3.64]	4.47[5.17-3.96]	4.63[6.00-3.46]	4.84[6.42-3.42]
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 heating	Nom. (Min - Max)	kW	0.86[0.21-1.34]	0.96[0.21-1.79]	1.21[0.21-1.80]	1.47[0.32-2.17]	2.15[0.62-2.86]	1.90[0.58-2.68]	2.03[0.70-3.06]	2.15[0.53-4.24]
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 source		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	3.5
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	619 x 824 x 299	619 x 824 x 299	619 x 824 x 299	795 x 875 x 320	795 x 875 x 320	795 x 875 x 320	999 x 940 x 340	999 x 940 x 340
Net weight		kg	39	39	39	71	71	72	80	81
Pipe 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
Outdoor unit RRP			£ 1,007	1,144	1,300	1,567	1,7781	1,996	2,506	2,943

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 • R32

Rooms	Model	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	60	71	16	20	25	35	42	50	60	71	16	20	25	35	42	50	60	71	16	20	25	35	42	50	60	71	16	20	25	35	42	50	60	71		
2	CU-2Z35TBE	3,2 – 6,0 kW	✓	✓	✓	✓				✓	✓	✓	✓						✓	✓	✓						✓	✓	✓						✓	✓	✓							
	CU-2Z41TBE	3,2 – 6,0 kW	✓	✓	✓	✓				✓	✓	✓	✓						✓	✓	✓						✓	✓	✓						✓	✓	✓							
	CU-2Z50TBE	3,2 – 7,7 kW	✓	✓	✓	✓	✓ ¹⁾	✓ ¹⁾			✓	✓	✓	✓	✓ ¹⁾	✓ ¹⁾				✓	✓	✓			✓ ¹⁾			✓	✓	✓	✓ ¹⁾					✓	✓	✓	✓ ¹⁾					
3	CU-3Z52TBE	4,5 – 9,5 kW	✓	✓	✓	✓	✓ ¹⁾	✓ ¹⁾			✓	✓	✓	✓	✓ ¹⁾	✓ ¹⁾											✓	✓	✓	✓ ¹⁾					✓	✓	✓	✓ ¹⁾						
	CU-3Z68TBE	4,5 – 11,2 kW	✓	✓	✓	✓	✓ ¹⁾	✓ ¹⁾			✓	✓	✓	✓	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾										✓	✓	✓	✓ ¹⁾	✓ ¹⁾				✓	✓	✓	✓ ¹⁾	✓ ¹⁾					
4	CU-4Z68TBE	4,5 – 11,5 kW	✓	✓	✓	✓	✓ ¹⁾	✓ ¹⁾			✓	✓	✓	✓	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾										✓	✓	✓	✓ ¹⁾	✓ ¹⁾				✓	✓	✓	✓ ¹⁾	✓ ¹⁾					
	CU-4Z80TBE	4,5 – 14,7 kW	✓	✓	✓	✓	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾²⁾		✓	✓	✓	✓	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾									✓	✓	✓	✓ ¹⁾	✓ ¹⁾				✓	✓	✓	✓ ¹⁾	✓ ¹⁾					
5	CU-5Z90TBE	4,5 – 18,3 kW	✓	✓	✓	✓	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾²⁾		✓	✓	✓	✓	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾									✓	✓	✓	✓ ¹⁾	✓ ¹⁾				✓	✓	✓	✓ ¹⁾	✓ ¹⁾					

1) A CZ-MA1P pipe reducer is needed on the 42 and 50, a CZ-MA2P pipe expander is needed on the 60 and 71, and CZ-MA3P pipe reducer on the 71. 2) Only for Pure White Matt model.

* Compatible only with 2 ports R32 outdoor CU-2Z35TBE / CU-2Z41TBE / CU-2Z50TBE. Minimum quantity of connection: 2 indoor units. Floor console indoor unit is compatible with R410A outdoors with 3, 4 or 5 ports: CU-3E18PBE, CU-3E23SBE, CU-4E23PBE, CU-4E27PBE and CU-5E34PBE.

Outdoor Multi combination model

	Model
CS-MZ16XKE / CS-MT16WKE CS-XZ20XKEW / CS-Z20XKEW / CS-TZ20WKEW / CS-MZ20UFEA / CS-MZ20UB4EA / CS-MZ20UD3EA CS-XZ25XKEW / CS-Z25XKEW / CS-TZ25WKEW / CS-Z25UFEAW / CS-Z25UB4EAW / CS-Z25UD3EAW CS-XZ35XKEW / CS-Z35XKEW / CS-TZ35WKEW / CS-Z35UFEAW / CS-Z35UB4EAW / CS-Z35UD3EAW	CU-2Z35TBE / CU-2Z41TBE / CU-2Z50TBE / CU-3Z52TBE / CU-3Z68TBE / CU-4Z68TBE / CU-4Z80TBE / CU-5Z90TBE
CS-Z42XKEW / CS-TZ42WKEW CS-XZ50XKEW / CS-Z50XKEW / CS-TZ50WKEW / CS-Z50UFEAW / CS-Z50UB4EAW / CS-Z50UD3EAW	CU-2Z50TBE / CU-3Z52TBE / CU-3Z68TBE / CU-4Z68TBE / CU-4Z80TBE / CU-5Z90TBE
CS-TZ60WKEW / CS-Z60UB4EAW / CS-Z60UD3EAW	CU-3Z68TBE / CU-4Z68TBE / CU-4Z80TBE / CU-5Z90TBE
CS-Z71XKEW / CS-TZ71WKEW	CU-4Z80TBE / CU-5Z90TBE
	CZ-MA1P CZ-MA2P CZ-MA3P*

* For CZ-MA3P necessary to use adaptor CZ-MA2P too.

