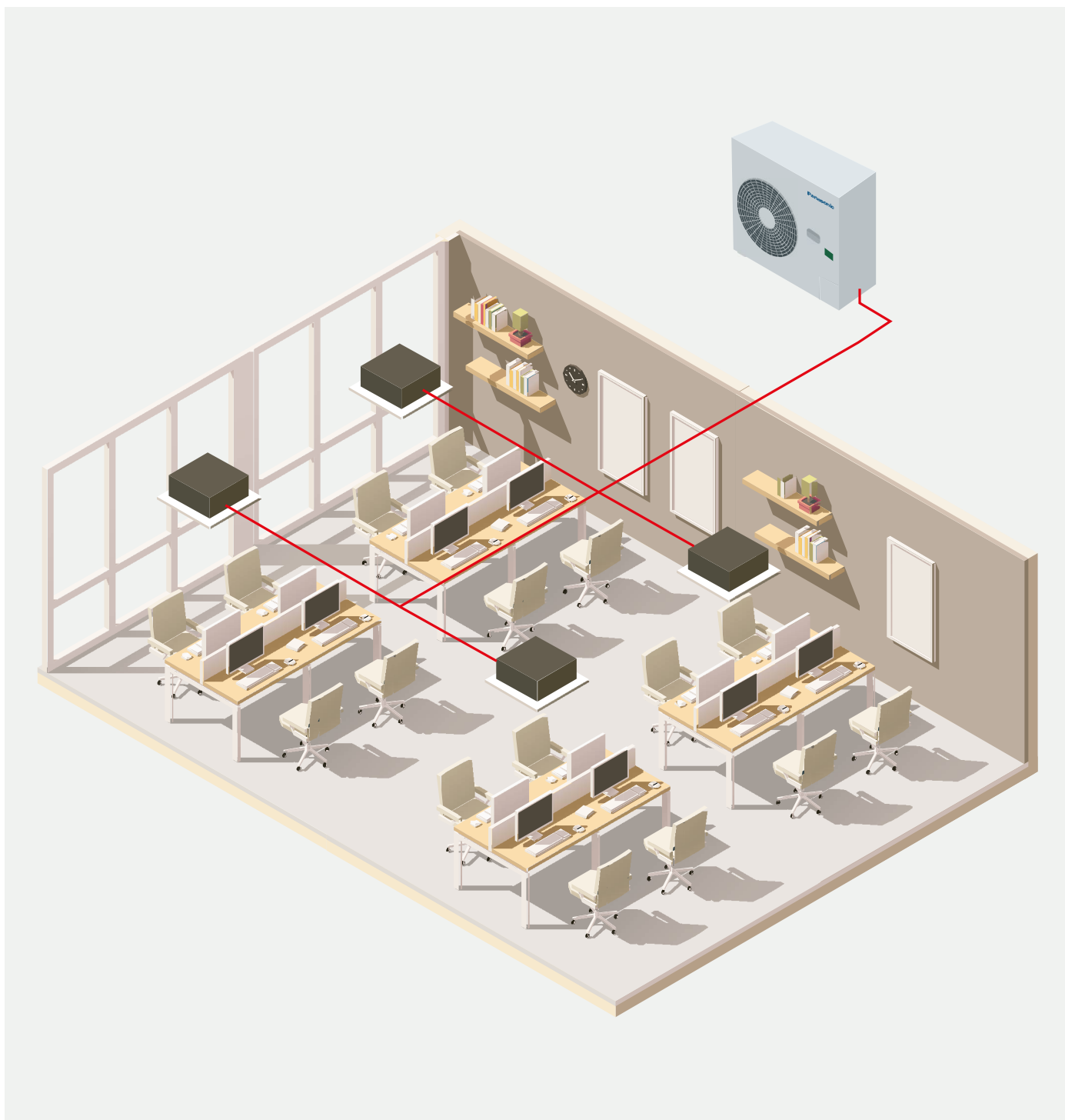


## Commercial twin, triple and double-twin systems - R32

With this system, a single outdoor unit can split its capacity simultaneously across up to 4 indoor units, for better distribution within the space. This makes the system particularly apt for common areas. It reduces noise concentration and enables the same temperature to be reached around the room. A wide variety of the same type of indoor units can be connected in multi combinations (including wall-mounted, cassette, hide-away and ceiling).





### 1 PACi NX Elite from 7,1 to 14,0 kW

Up to 4 indoor units can be connected to the same outdoor unit. Panasonic's Elite units 7,1, 10,0, 12,0 and 14,0 can be installed as twin, triple and double-twin systems. The indoor units can be combined as per the selection table. The operation will always be simultaneous. All the indoor units will work with the same settings.

### 2 PACi NX Standard from 10,0 to 14,0 kW

Up to 2 indoor units connectable on the same outdoor. Panasonic's Standard units can be installed as single and twin systems. The indoor units can be combined following the selection table. The operation will always be simultaneous. All the indoor units will work with the same settings.

### 3 Big PACi Elite from 20,0 to 25,0 kW

Up to 4 indoor units can be connected to the same outdoor unit. Panasonic's PACi units 20,0 and 25,0 can be installed as twin, triple and double-twin systems. The indoor units can be combined as per the selection table. The operation will always be simultaneous. All the indoor units will work with the same settings.

# Commercial twin, triple and double-twin systems - R32

New  
2023



## PACi Elite outdoor units - R32

			PACi NX				Big PACi	
			7,1 kW	10,0 kW	12,5 kW	14,0 kW	20,0 kW	25,0 kW
<b>Outdoor unit single phase</b>			<b>U-71PZH4E5</b>	<b>U-100PZH4E5</b>	<b>U-125PZH4E5</b>	<b>U-140PZH4E5</b>	—	—
<b>Outdoor unit three phase</b>			<b>U-71PZH4E8</b>	<b>U-100PZH4E8</b>	<b>U-125PZH4E8</b>	<b>U-140PZH4E8</b>	<b>U-200PZH2E8</b>	<b>U-250PZH2E8</b>
Cooling capacity <sup>1)</sup>	Nominal (Min - Max)	kW	7,1 [2,2 - 9,0]	9,5 [3,1 - 12,5]	12,5 [3,2 - 14,0]	13,4 [3,3 - 16,0]	20,0 [5,7 - 22,4]	25,0 [6,1 - 28,0]
Heating capacity <sup>1)</sup>	Nominal (Min - Max)	kW	8,0 [2,0 - 9,0]	11,2 [3,1 - 14,0]	14,0 [3,2 - 16,0]	16,0 [3,3 - 18,0]	22,4 [5,0 - 25,0]	28,0 [5,5 - 31,5]
Power supply	Single phase	V	220-230-240	220-230-240	220-230-240	220-230-240	—	—
	Three phase	V	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415
Connection indoor / outdoor		mm <sup>2</sup>	2x1,5 or 2,5	2x1,5 or 2,5	2x1,5 or 2,5	2x1,5 or 2,5	—	—
Air flow	Cool / Heat	m <sup>3</sup> /min	62,0/66,0	76,0/70,0	86,0/78,0	89,0/83,0	164/164	160/160
Sound pressure	Cool / Heat (Hi)	dB(A)	48/50	52/52	55/55	56/56	59/61	59/63
Sound power	Cool / Heat (Hi)	dB(A)	65/67	69/69	73/73	74/74	77/79	78/82
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	1500 x 980 x 370	1500 x 980 x 370
Net weight	1ph / 3ph	kg	66	84/82	86/84	86/84	117	128
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	1 (25,40)	1 (25,40)
Pipe length range	Min ~ Max	m	5 ~ 60	5 ~ 100	5 ~ 100	5 ~ 100	5 ~ 80	5 ~ 60
Elevation difference (in / out)	Max	m	15/30 <sup>2)</sup>	15/30 <sup>2)</sup>	15/30 <sup>2)</sup>	15/30 <sup>2)</sup>	30	30
Pre-charged pipe length		m	30	30	30	30	30	30
Additional gas amount		g/m	30	40	40	40	60	80
Refrigerant [R32] / CO <sub>2</sub> Eq.		kg / T	1,95/1,32	2,70/1,82	3,00/2,03	3,00/2,03	4,20/2,835	5,20/3,51
Operating range	Cool Min ~ Max	°C	-15 ~ +52	-20 <sup>3)</sup> ~ +52	-20 <sup>3)</sup> ~ +52	-20 <sup>3)</sup> ~ +52	-15 ~ +46	-15 ~ +46
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

1) With 4 way 90x90 cassette. 2) Outdoor unit located lower / outdoor unit located higher. 3) Pipe length up to 30 m.



## PACi NX Standard outdoor units - R32

			10,0 kW	12,5 kW	14,0 kW
<b>Outdoor unit single phase</b>			<b>U-100PZ3E5</b>	<b>U-125PZ3E5</b>	<b>U-140PZ3E5</b>
<b>Outdoor unit three phase</b>			<b>U-100PZ3E8</b>	<b>U-125PZ3E8</b>	<b>U-140PZ3E8</b>
Cooling capacity <sup>1)</sup>	Nominal (Min - Max)	kW	10,0 [3,0 - 11,5]	12,5 [3,2 - 13,5]	14,0 [3,3 - 15,0]
Heating capacity <sup>1)</sup>	Nominal (Min - Max)	kW	10,0 [3,0 - 14,0]	12,5 [3,3 - 15,0]	14,0 [3,4 - 16,0]
Power supply	Single phase	V	220-230-240	220-230-240	220-230-240
	Three phase	V	380-400-415	380-400-415	380-400-415
Connection indoor / outdoor		mm <sup>2</sup>	2x1,5 or 2,5	2x1,5 or 2,5	2x1,5 or 2,5
Air flow	Cool / Heat	m <sup>3</sup> /min	73,0/73,0	82,0/80,0	84,0/82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	52/52	55/55	56/56
Sound power	Cool / Heat (Hi)	dB(A)	70/70	73/73	74/74
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	83	87	87
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range	Min ~ Max	m	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in / out) <sup>2)</sup>	Max	m	15/30	15/30	15/30
Pre-charged pipe length		m	30	30	30
Additional gas amount		g/m	45	45	45
Refrigerant [R32] / CO <sub>2</sub> Eq.		kg / T	2,4/1,62	2,8/1,89	2,8/1,89
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ 24	-15 ~ 24	-15 ~ 24

1) With 4 way 90x90 cassette. 2) Outdoor unit located lower / outdoor unit located higher.

# Compatible indoor units for multi combinations

## Optional:



PANASONIC AC SMART CLOUD and AC SERVICE CLOUD: Optional.



Wall-mounted	Indoor unit	Cooling capacity kW	Heating capacity kW	Dimension	Sound pressure <sup>1)</sup>	Air flow <sup>2)</sup>
				H x W x D mm	Hi / Med / Lo dB(A)	Hi / Med / Lo m <sup>3</sup> /min
3,6 - 5,0 kW	S-3650PK3E	3,6-5,0	4,0-5,6	302 x 1120 x 236	35/31/27 - 40/36/32	13,0/11,0/9,0 - 16,0/13,5/11,0
6,0 - 7,1 kW	S-6010PK3E	6,1-7,1	7,0-8,0	302 x 1120 x 236	47/44/40 - 47/44/40	20,0/17,5/14,5 - 20,0/17,5/14,5
10,0 kW	S-6010PK3E	9,5	9,5	302 x 1120 x 236	49/45/41	22,0/18,5/15,0



PANASONIC AC SMART CLOUD and AC SERVICE CLOUD: Optional.



4 way 60x60 cassette	Indoor unit (panel CZ-KPY4)	Cooling capacity kW	Heating capacity kW	Dimension indoor / panel	Sound pressure <sup>1)</sup>	Air flow <sup>2)</sup>
				H x W x D mm	Hi / Med / Lo dB(A)	Hi / Med / Lo m <sup>3</sup> /min
2,5 kW	S-25PY3E	2,5	3,2	243 x 575 x 575 / 30 x 625 x 625	31/28/25	8,5/7,0/6,0
3,6 kW	S-36PY3E	3,6	4,0	243 x 575 x 575 / 30 x 625 x 625	34/30/25	9,5/7,5/6,0
5,0 kW	S-50PY3E	5,0	5,6	243 x 575 x 575 / 30 x 625 x 625	39/34/27	12,0/9,5/6,5
6,0 kW	S-60PY3E	6,0	7,0	243 x 575 x 575 / 30 x 625 x 625	43/37/31	14,0/10,5/8,0



PANASONIC AC SMART CLOUD and AC SERVICE CLOUD: Optional.



4 way 90x90 cassette	Indoor unit (panels CZ-KPU3W/3AW)	Cooling capacity kW	Heating capacity kW	Dimension indoor / panel	Sound pressure <sup>1)</sup>	Air flow <sup>2)</sup>
				H x W x D mm	Hi / Med / Lo dB(A)	Hi / Med / Lo m <sup>3</sup> /min
3,6 - 5,0 kW	S-3650PU3E	3,6-5,0	4,0-5,6	256 x 840 x 840 / 33,5 x 950 x 950	30/28/27 - 32/29/27	14,5/13,0/11,5 - 16,5/13,5/11,5
6,0 - 7,1 kW	S-6071PU3E	6,0-7,1	7,0-8,0	256 x 840 x 840 / 33,5 x 950 x 950	36/31/28 - 37/31/28	21,0/16,0/13,0 - 22,0/16,0/13,0
10,0 - 12,5 kW	S-1014PU3E	10,0-12,5	11,2-14,0	319 x 840 x 840 / 33,5 x 950 x 950	45/38/32 - 46/39/33	36,0/26,0/18,0 - 37,0/27,0/19,0
14,0 kW	S-1014PU3E	14,0	16,0	319 x 840 x 840 / 33,5 x 950 x 950	47/40/34	38,0/29,0/20,0



PANASONIC AC SMART CLOUD and AC SERVICE CLOUD: Optional.



Ceiling	Indoor unit	Cooling capacity kW	Heating capacity kW	Dimension	Sound pressure <sup>1)</sup>	Air flow <sup>2)</sup>
				H x W x D mm	Hi / Med / Lo dB(A)	Hi / Med / Lo m <sup>3</sup> /min
3,6 - 5,0 kW	S-3650PT3E	3,5-5,0	4,0-5,6	235 x 960 x 690	36/32/28 - 37/33/28	14,0/12,0/10,5 - 15,0/12,5/10,5
6,0 - 7,1 kW	S-6071PT3E	6,0-6,8	7,0-8,0	235 x 1275 x 690	38/34/29 - 39/35/30	20,0/17,0/14,5 - 21,0/18,0/15,5
10,0 - 12,5 kW	S-1014PT3E	9,5-12,1	11,2-14,0	235 x 1590 x 690	42/37/34 - 46/40/35	30,0/25,0/23,0 - 34,0/28,0/24,0
14,0 kW	S-1014PT3E	13,4	16,0	235 x 1590 x 690	47/41/36	35,0/29,0/25,0



PANASONIC AC SMART CLOUD and AC SERVICE CLOUD: Optional.



Adaptive ducted unit	Indoor unit	Cooling capacity kW	Heating capacity kW	Dimension	External static pressure	Sound pressure <sup>1)</sup>	Air flow <sup>2)</sup>
				H x W x D mm	Nominal (Min-Max) Pa	Hi / Med / Lo dB(A)	Hi / Med / Lo m <sup>3</sup> /min
3,6 - 5,0 kW	S-3650PF3E	3,6-5,0	4,0-5,6	250 x 800 x 730	30(10-150) - 30(10-150)	30/27/22 - 34/30/25	14,0/13,0/10,0 - 16,0/15,0/12,0
6,0 - 7,1 kW	S-6071PF3E	5,7-6,8	7,0-7,5	250 x 1000 x 730	30(10-150) - 30(10-150)	30/26/23 - 30/26/23	21,0/19,0/15,0 - 21,0/19,0/15,0
10,0 - 12,5 kW	S-1014PF3E	9,5-12,1	10,8-13,5	250 x 1400 x 730	40(10-150) - 50(10-150)	33/29/25 - 35/31/27	32,0/26,0/21,0 - 34,0/29,0/23,0
14,0 kW	S-1014PF3E	13,4	15,5	250 x 1400 x 730	50(10-150)	39/35/29	36,0/32,0/25,0

\* The data shown in these tables are based on PACI NX Elite combinations. 1) The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 2) Factory setting.

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](http://www.aircon.panasonic.eu) or [www.plc.panasonic.eu](http://www.plc.panasonic.eu).

# Simultaneous operation system combinations

## PACi NX Elite from 7,1 to 14,0 kW simultaneous operation system combinations - R32

Capacity	Indoor	Outdoor			
		7,1 kW	10,0 kW	12,5 kW	14,0 kW
2,5 kW	S-25PY3E	Triple U-71 (3x 2,5)	Double-twin U-100 (2x 2,5)		
3,6 kW	S-36PY3E S-3650PF3E S-3650PK3E S-3650PT3E S-3650PU3E	Twin U-71 (2x 3,6)	Triple U-100 (3x 3,6)	Double-twin U-125 (2x 3,6)	
4,5 kW	S-3650PF3E S-3650PK3E S-3650PT3E S-3650PU3E			Triple U-125 (3x 4,5)	
5,0 kW	S-50PY3E S-3650PF3E S-3650PK3E S-3650PT3E S-3650PU3E		Twin U-100 (2x 5,0)		Triple U-140 (3x 5,0)
6,0 kW	S-60PY3E S-6071PF3E S-6010PK3E S-6071PT3E S-6071PU3E			Twin U-125 (2x 6,0)	
7,1 kW	S-6071PF3E S-6010PK3E S-6071PT3E S-6071PU3E				Twin U-140 (2x 7,1)

## PACi NX Standard from 10,0 to 14,0 kW simultaneous operation system combinations - R32

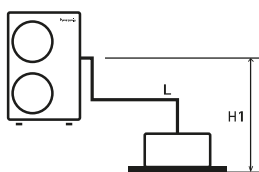
Capacity	Indoor	Outdoor		
		10,0 kW	12,5 kW	14,0 kW
5,0 kW	S-50PY3E S-3650PF3E S-3650PK3E S-3650PT3E S-3650PU3E	Twin U-100 (2x 5,0)		
6,0 kW	S-60PY3E S-6071PF3E S-6010PK3E S-6071PT3E S-6071PU3E		Twin U-125 (2x 6,0)	
7,1 kW	S-6071PF3E S-6010PK3E S-6071PT3E S-6071PU3E			Twin U-140 (2x 7,1)

## Big PACi Elite from 20,0 to 25,0 kW simultaneous operation system combinations - R32

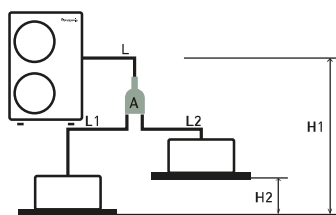
Capacity	Indoor	Outdoor	
		20,0 kW	25,0 kW
5,0 kW	S-50PY3E S-3650PF3E S-3650PK3E S-3650PT3E S-3650PU3E	Double-twin U-200 (2x 5,0)	
6,0 kW	S-60PY3E S-6071PF3E S-6010PK3E S-6071PT3E S-6071PU3E		Double-twin U-250 (2x 6,0)
7,1 kW	S-6071PF3E S-6010PK3E S-6071PT3E S-6071PU3E	Triple U-200 (3x 7,1)	
10,0 kW	S-1014PF3E S-6010PK3E S-1014PT3E S-1014PU3E	Twin U-200 (2x 10,0)	
12,5 kW	S-1014PF3E S-1014PT3E S-1014PU3E		Twin U-250 (2x 12,5)

# Refrigerant piping arrangements

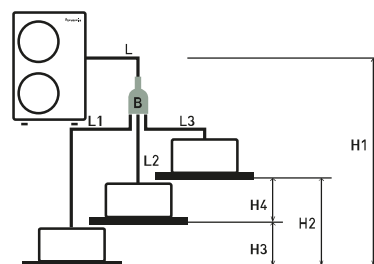
Single



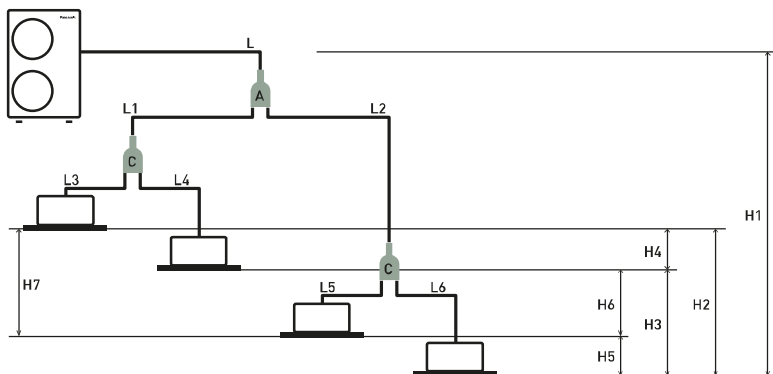
Twin



Triple



Double-twin



**PACi NX Elite twin, triple and double-twin system from 7,1 to 14,0 kW**

Joint distribution (sold separately)

A= CZ-P224BK2BM

B= CZ-P3 HPC2BM

C= CZ-P224BK2BM

**PACi NX Standard twin system from 10,0 to 14,0 kW**

Joint distribution (sold separately)

A= CZ-P224BK2BM

**PACi Elite twin, triple and double-twin system from 20,0 to 25,0 kW**

Joint distribution (sold separately)

A= CZ-P680BK2BM

B= CZ-P3 HPC2BM

C= CZ-P224BK2BM

Twin System	PACi NX Standard single and twin system from 7,1 to 14,0 kW			PACi NX Elite and PACi Elite twin, triple and double-twin system from 7,1 to 25 kW					
	Single	Twin	Equivalent lengths and height differences (m) for outdoor unit sizes...	Indoor unit combinations (see examples above)				Equivalent lengths and height differences (m) for outdoor unit sizes from 7,1 to 14,0 kW	Equivalent lengths and height differences (m) for outdoor unit sizes from 20,0 to 25,0 kW
				Single	Twin	Triple	Double-Twin		
Total pipe length	L	L + L1 + L2	≤ 50 m	L	L + L1 + L2	L + L1 + L2 + L3	L + L1 + L2 + L3 + L4 + L5 + L6	U-60/U-71: ≤ 50 m U-100/125/140: ≤ 75 m	U-200: ≤ 100 m U-250: ≤ 80 m
Maximum pipe length from outdoor unit to most distant indoor unit	-	-	-	-	L + L1 or L + L2	L + L1 or L + L2 or L + L3	L + L1 + L3 or L + L1 + L4 or L + L2 + L5 or L + L2 + L6	-	U-200: 90 m U-250: 60 m
Maximum branch pipe length	-	L1 L2	≤ 15	-	L1 or L2	L1 or L2 or L3	L1 + L3 or L1 + L4 or L2 + L5 or L2 + L6	≤ 15 m	≤ 20 m
Maximum branch pipe length differences	-	L1 > L2 L1 - L2	≤ 10	-	L1 > L2; L1 - L2	L1 > L2 > L3; L1 - L2 L2 - L3 L1 - L3	L2 + L6 (Max.) L1 + L3 (Min.); (L2 + L6) - (L1 + L3)	≤ 10 m	≤ 10 m
Maximum pipe length differences after first branch (Double-Twin)	-	-	-	-	-	-	L2 > L1; L2 - L1	≤ 10 m	≤ 10 m
Maximum pipe length differences after second branch (Double-Twin)	-	-	-	-	-	-	L4 > L3; L4 - L3 L6 > L5; L6 - L5	≤ 10 m	≤ 10 m
Height difference (outdoor unit located higher)	H1	H1	≤ 30	H1	H1	H1	H1	≤ 30 m	≤ 30 m
Height difference (outdoor unit located lower)	H1	H1	≤ 15	H1	H1	H1	H1	≤ 15 m	≤ 15 m
Height difference between indoor units	-	H2	≤ 0,5	-	H2	H2 or H3 or H4	H2 or H3 or H4 or H5 or H6	≤ 0,5 m	≤ 0,5 m

Twin System	PACi NX Standard single and twin system from 7,1 to 14,0 kW				PACi NX Elite twin, triple and double-twin system from 7,1 to 14,0 kW					PACi Elite twin, triple and double-twin system from 20,0 to 25,0 kW					
	Outdoor unit main piping diameter (L)		Indoor unit connection tube (L1, L2)		Outdoor unit main piping diameter (L)	Indoor unit connection piping diameter (L1, L2, L3, L4) (mm)				Outdoor unit main piping diameter (L) (mm)	Double-Twin distribution pipe (L1, L2) <sup>1)</sup>		Indoor unit connection piping diameter <sup>2)</sup>		
Unit type capacity	100	125	50	60	71 - 140	36	45	50	60	71	200	250	100 - 125	50	60 - 125
Liquid (mm)	∅ 9,52	∅ 12,70	∅ 6,35	∅ 9,52	∅ 9,52	∅ 6,35	∅ 6,35	∅ 6,35	∅ 9,52	∅ 9,52	∅ 9,52	∅ 12,70	∅ 9,52	∅ 6,35	∅ 9,52
Gas (mm)	∅ 15,88	∅ 15,88	∅ 12,70	∅ 15,88	∅ 15,88	∅ 12,70	∅ 12,70	∅ 12,70	∅ 15,88	∅ 15,88	∅ 25,40	∅ 25,40	∅ 15,88	∅ 12,70	∅ 15,88
Additional gas amount (g/m)	50	50	20	50	50	20	20	20	50	50	60	80	45	20	45

1) Total capacity of indoor unit connected after the branch. 2) 4 way cassette type.

Make additional charges by adding up tube length in an order of main tube (L) > branch tube (L1 > L2 > L3 wide diameter) and then selecting the amount of refrigerant corresponding to the remaining (after charge-less tube length: 30 m) liquid tube diameter and tube length from the above table.