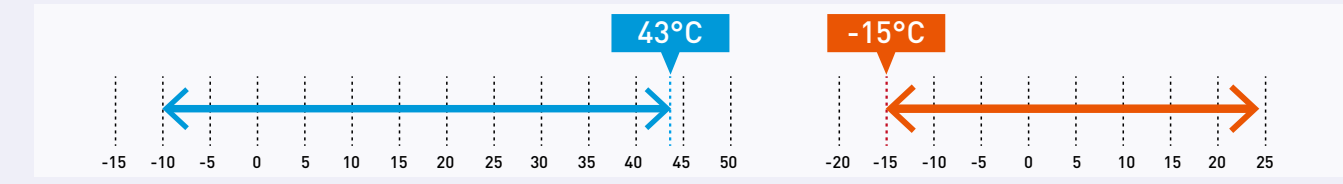


# Wide Operation Range HEAT PUMP Model

## Cooling & Heating Even in Difficult Ambient Conditions

The PAC HEAT PUMP models are capable of working even in the most difficult ambient conditions. Cooling operation is possible when the outdoor temperature is as low as -10°C\*1 or as high as 43°C\*2. The heating operation can also be utilized at outdoor temperatures down to -15°C when the outdoor temperature is as low as -15°C.

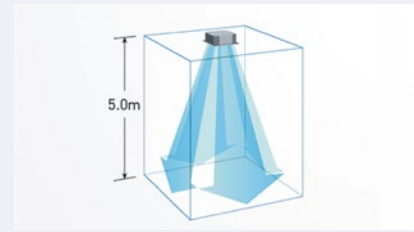
\*1 It is possible to operate at -10°C only in computer rooms with a piping length of 30m or less.  
\*2 Please check technical tables for further details on operating temperature.



# Advantages of New 4-way Cassette

## Compact, Modern & Flat Panel Design

Featuring uniform cooling, easy installation, and with a sleek exterior, this unit is the perfect match for all commercial applications.



### Powerful Airflow

Thanks to its compact design the Twisted 3D Blade Fan increases airflow.

### 360° Comfortable Airflow

Air coming out of the centre of the discharge outlets travels farther. Air is discharged across a wide area from the four sides of the unit.

### Wide Flap

A wider main flap and sub flap reduce turbulence and increase airflow. Also, a wider angle jetting port allows airflow to reach as far as five meters.

\* 4-Way Cassette : 3448PU type

# Advantages for Outdoor Unit

## 34,100k Btu/h Comparison\*

Height 1,340 mm  
996 mm  
Weight 110 kg  
83 kg

New Model  
344 mm Shorter  
27 kg Lighter

\* Comparison between U-34PZ3H5 and CU-B34DBE5



## Compact, Space-saving Design

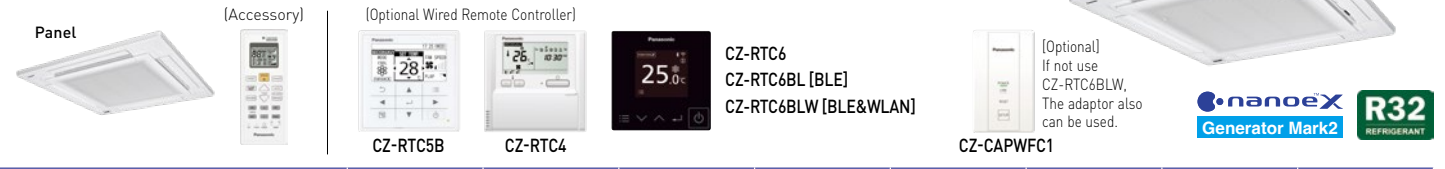
The ingenious design allows for a more compact outdoor unit that fits into any space and layout.

## In-house Manufactured Compressor & R32 Refrigerant

All Panasonic heat exchangers feature our Blue Fin technology, which offers corrosion resistance. They also use an in-house manufactured compressor, and next-generation R32 refrigerant with low global warming potential.

# 4-WAY CASSETTE

- Industry-leading powerful, 360° wide & comfortable airflow.
- The drain pump can pump water up to a height of 850 mm, making drain pipe layout easy.



Capacity [Btu/h Phase]		17,100	20,500	24,200	34,100	42,700	47,800	47,800 [3]	47,800
Power Source	V/Phase Hz	220-240V, 10Phase - 50Hz			380-415V, 30Phase - 50Hz			220-240V, 10Phase - 50Hz	
Indoor Unit		S-18PU3HB	S-2124PU3HB	S-2124PU3HB	S-3448PU3HB	S-3448PU3HB	S-3448PU3HB	S-3448PU3HB	S-3448PU3HB
Outdoor Unit		U-18PZ3H5	U-21PZ3H5	U-24PZ3H5	U-34PZ3H5	U-34PZ3H5	U-34PZ3H5	U-48PZ3H5	U-48PZ3H5
Panel		CZ-RTC5B	CZ-RTC4	CZ-RTC6	CZ-RTC6BL [BLE]	CZ-RTC6BLW [BLE&WLAN]	CZ-CAPWFC1		
Cooling Capacity: Rated [Min-Max]	kW	5.00 [1.5-5.6]	6.00 [2.0-7.1]	7.10 [2.4-8.1]	10.00 [3.0-11.5]	12.50 [3.2-13.5]	14.00 [3.3-15.0]	14.00 [3.3-15.0]	14.00 [3.3-15.0]
	Btu/h	17,100 [5,100-19,100]	20,500 [6,800-24,200]	24,200 [8,900-26,300]	34,100 [10,200-39,200]	42,700 [10,900-46,100]	47,800 [10,900-46,100]	47,800 [11,300-51,200]	47,800 [11,300-51,200]
Heating Capacity: Rated [Min-Max]	kW	5.00 [1.5-5.6]	6.00 [1.8-7.0]	7.10 [2.4-8.1]	10.00 [3.0-14.0]	12.50 [3.3-15.0]	14.00 [3.4-16.0]	14.00 [3.4-16.0]	14.00 [3.4-16.0]
	Btu/h	17,100 [5,100-21,800]	20,500 [6,100-23,900]	24,200 [7,200-27,400]	34,100 [10,200-47,800]	42,700 [11,300-51,200]	47,800 [11,300-51,200]	47,800 [11,600-54,600]	47,800 [11,600-54,600]
Current: Rated [Max]	Cooling A	5.95-5.45 [10.5]	7.5-6.9 [13.1]	10.1-9.25 [14.8]	13.1-12.0 [27.9]	16.9-15.5 [31.9]	5.65-5.15 [12.9]	21.0-19.2 [32.9]	7.00-6.40 [13.4]
	Heating A	5.05-4.65 [10.5]	6.2-5.7 [13.1]	7.80-7.15 [14.8]	10.1-9.3 [27.9]	13.6-12.5 [31.9]	4.55-4.15 [12.9]	16.2-14.8 [32.9]	5.40-4.95 [13.4]
Power Input: Rated [Min-Max]	Cooling kW	1.28 [0.24-1.75]	1.57 [0.34-2.36]	2.09 [0.54-2.78]	2.62 [0.56-4.00]	3.49 [0.60-4.80]	3.49 [0.60-4.80]	4.34 [0.62-5.50]	4.34 [0.62-5.50]
	Heating kW	1.08 [0.20-1.84]	1.34 [0.26-2.20]	1.68 [0.35-2.40]	2.03 [0.56-3.90]	2.82 [0.60-4.20]	3.35 [0.62-4.80]	3.35 [0.62-4.80]	3.35 [0.62-4.80]
CSPF		5.80	6.91	5.55	6.17	6.23	6.23	5.97	5.97
COP/EER	Cooling	3.91	3.82	3.4	3.82	3.58	3.58	3.23	3.23
	Heating	4.63	4.48	4.23	4.93	4.43	4.43	4.18	4.18
COP/EER	Heating	15.80	15.29	14.43	16.82	15.12	15.12	14.26	14.26
<b>Indoor Unit</b>									
Air Volume	Cooling	m <sup>3</sup> /min[H/M/L]	16.5/13.5/11.5	21.0/16.0/13.0	22.0/16.0/13.0	36.0/26.0/18.0	37.0/27.0/19.0	37.0/27.0/19.0	38.0/29.0/20.0
	Heating	m <sup>3</sup> /min[H/M/L]	16.5/13.5/11.5	21.0/16.0/13.0	22.0/16.0/13.0	36.0/26.0/18.0	37.0/27.0/19.0	37.0/27.0/19.0	38.0/29.0/20.0
Sound Pressure Level	Cooling	dB [A] [H/M/L]	32/29/27	36/31/28	37/31/28	45/38/32	46/39/33	46/39/33	47/40/34
	Heating	dB [A] [H/M/L]	32/29/27	36/31/28	37/31/28	45/38/32	46/39/33	46/39/33	47/40/34
Sound Power Level	Cooling	dB [A] [H/M/L]	47/44/42	51/44/43	51/44/43	59/54/48	60/55/49	60/55/49	61/56/50
	Heating	dB [A] [H/M/L]	47/44/42	51/44/43	51/44/43	59/54/48	60/55/49	60/55/49	61/56/50
Dimension	Indoor [HxWxD]	mm	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Panel [HxWxD]	mm	44 x 950 x 950	44 x 950 x 950	44 x 950 x 950	44 x 950 x 950	44 x 950 x 950	44 x 950 x 950	44 x 950 x 950
Net Weight	Indoor	kg	19	20	20	25	25	25	25
	Panel	kg	5	5	5	5	5	5	5
<b>Outdoor Unit</b>									
Sound Pressure Level	Cooling	dB [A] [H/L]	66/-	68/-	69/-	75/-	75/-	75/-	76/-
	Heating	dB [A] [H/L]	66/-	69/-	69/-	75/-	75/-	75/-	76/-
Sound Power Level	Cooling	dB [A] [H/L]	64/-	66/-	67/-	73/-	73/-	73/-	74/-
	Heating	dB [A] [H/L]	64/-	67/-	67/-	73/-	73/-	73/-	74/-
Dimension	Outdoor [HxWxD]	mm	619 x 824 x 299	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net Weight		kg	35	42	50	83	87	87	87
Piping Connection	Gas Pipe	mm [inch]	12.70 [1/2]	12.70 [1/2]	15.88 [5/8]	15.88 [5/8]	15.88 [5/8]	15.88 [5/8]	15.88 [5/8]
	Liquid Pipe	mm [inch]	6.35 [1/4]	6.35 [1/4]	6.35 [1/4]	9.52 [3/8]	9.52 [3/8]	9.52 [3/8]	9.52 [3/8]
Pipe Length	Min-Max	m	3-30	3-40	3-40	5-50	5-50	5-50	5-50
Elevation Difference [ODU Higher]		m	15	30	30	30	30	30	30
Maximum Chargeless Length	Max	m	7.5	30	30	30	30	30	30
Additional Gas		g/m	15	15	17	45	45	45	45
Operation Range, Outdoor	Cooling [Min-Max] °C		-10-43	-10-43	-10-43	-10-43	-10-43	-10-43	-10-43
	Heating [Min-Max] °C		-15-24	-15-24	-15-24	-15-24	-15-24	-15-24	-15-24

\* Specifications are subject to change without notice. Please refer to technical documents for more details. \* The sound pressure level is measured in accordance with JIS C 9612 and JIS B 8616.

# ADAPTIVE DUCTED

- Air intake from rear as standard. Industry-leading horizontal and vertical design.
- Powerful 150Pa ESP and space saving 250 mm height, filter included.
- Built-in drain pump and selectable air inlet position (bottom and rear).



Capacity [Btu/h Phase]		15,700	19,400	23,200	32,400	41,300	41,300 [3]	45,700	45,700 [3]
Power Source	V/Phase Hz	220-240V, 10Phase - 50Hz			380-415V, 30Phase - 50Hz			220-240V, 10Phase - 50Hz	
Indoor Unit		S-18PF3HB	S-2124PF3HB	S-2124PF3HB	S-3448PF3HB	S-3448PF3HB	S-3448PF3HB	S-3448PF3HB	S-3448PF3HB
Outdoor Unit		U-18PZ3H5	U-21PZ3H5	U-24PZ3H5	U-34PZ3H5	U-34PZ3H5	U-34PZ3H5	U-48PZ3H5	U-48PZ3H5
Cooling Capacity: Rated [Min-Max]	kW	4.6 [1.5-5.3]	5.7 [2.0-6.3]	6.80 [2.6-7.7]	9.5 [3.0-11.4]	12.10 [3.2-13.5]	12.10 [3.2-13.5]	13.40 [3.3-16.0]	13.40 [3.3-16.0]
	Btu/h	15,700 [5,100-18,100]	19,400 [6,800-21,500]	23,200 [8,900-26,300]	32,400 [10,200-38,900]	41,300 [10,900-46,100]	41,300 [10,900-46,100]	45,700 [11,300-51,200]	45,700 [11,300-51,200]
Heating Capacity: Rated [Min-Max]	kW	5.00 [1.5-5.9]	6.80 [2.1-8.1]	9.5 [3.0-11.4]	12.10 [3.3-15.0]	14.00 [3.4-16.0]	14.00 [3.4-16.0]	15.88 [3.4-16.0]	15.88 [3.4-16.0]
	Btu/h	17,100 [5,100-20,100]	19,400 [6,100-23,900]	23,200 [7,200-27,400]	32,400 [10,200-47,800]	41,300 [11,300-51,200]	41,300 [11,300-51,200]	45,700 [11,600-54,600]	45,700 [11,600-54,600]
Current: Rated [Max]	Cooling A	6.70-10 [10.5]	7.45-8.85 [13.1]	9.95-10 [14.8]	13.3-12.2 [27.9]	17.2-15.8 [31.9]	17.2-15.8 [31.9]	18.5-18.8 [32.9]	18.5-18.8 [32.9]
	Heating A	6.45-5.95 [10.5]	6.55-6.00 [13.1]	7.90-7.25 [14.8]	11.6-10.4 [27.9]	16.4-15.1 [31.9]	16.4-15.1 [31.9]	17.2-15.8 [32.9]	17.2-15.8 [32.9]
Power Input: Rated [Min-Max]	Cooling kW	1.44 [0.32-1.92]	1.61 [0.38-2.40]	2.14 [0.57-2.86]	2.46 [0.59-4.84]	3.56 [0.63-4.90]	3.56 [0.63-4.90]	4.24 [0.65-5.86]	4.24 [0.65-5.86]
	Heating kW	1.38 [0.28-1.93]	1.41 [0.30-2.48]	1.70 [0.37-2.67]	2.32 [0.59-4.50]	3.40 [0.63-4.74]	3.40 [0.63-4.74]	3.56 [0.65-5.28]	3.56 [0.65-5.28]
CSPF		4.92	6.20	5.06	5.90	5.51	5.51	5.44	5.44
COP/EER	Cooling	3.19	3.54	3.18	3.57	3.40	3.4	3.16	3.16
	Heating	4.08	4.04	4.08	4.69	4.60	4.60	4.36	4.36
COP/EER	Heating	12.35	13.78	13.65	13.96	12.15	12.15	12.83	12.83
<b>Indoor Unit</b>									
Air Volume	Cooling	m <sup>3</sup> /min[H/M/L]	16.0/15.0/12.0	21.0/19.0/15.0	21.0/19.0/15.0	32.0/26.0/21.0	34.0/29.0/23.0	36.0/32.0/25.0	36.0/32.0/25.0
	Heating	m <sup>3</sup> /min[H/M/L]	16.0/15.0/12.0	21.0/19.0/15.0	21.0/19.0/15.0	32.0/26.0/21.0	34.0/29.0/23.0	36.0/32.0/25.0	36.0/32.0/25.0
Sound Pressure Level	Cooling	dB [A] [H/M/L]	34/30/25	30/26/23	30/26/23	33/29/25	35/31/27	39/35/29	39/35/29
	Heating	dB [A] [H/M/L]	34/30/25	30/26/23	30/26/23	33/29/25	35/31/27	39/35/29	39/35/29
Sound Power Level	Cooling	dB [A] [H/M/L]	57/53/48	53/49/46	53/49/46	56/52/48	58/54/50	62/58/52	62/58/52
	Heating	dB [A] [H/M/L]	57/53/48	53/49/46	53/49/46	56/52/48	58/54/50	62/58/52	62/58/52
Dimension	Indoor [HxWxD]	mm	250 x 800 x 730	250 x 800 x 730	250 x 800 x 730	250 x 1,000 x 730	250 x 1,000 x 730	250 x 1,400 x 730	250 x 1,400 x 730
Net Weight	Indoor	kg	25	30	30	39	39	39	39
<b>Outdoor Unit</b>									
Sound Pressure Level	Cooling	dB [A] [H/L]	68/-	69/-	69/-	75/-	75/-	76/-	76/-
	Heating	dB [A] [H/L]	69/-	69/-	69/-	75/-	75/-	76/-	76/-
Sound Power Level	Cooling	dB [A] [H/L]	66/-	66/-	67/-	73/-	73/-	74/-	74/-
	Heating	dB [A] [H/L]	67/-	67/-	67/-	73/-	73/-	74/-	74/-
Dimension	Outdoor [HxWxD]	mm	619 x 824 x 299	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net Weight		kg	35	42	50	83	87	87	87
Piping Connection	Gas Pipe	mm [inch]	12.70 [1/2]	12.70 [1/2]	15.88 [5/8]	15.88 [5/8]	15.88 [5/8]	15.88 [5/8]	15.88 [5/8]
	Liquid Pipe	mm [inch]	6.35 [1/4]	6.35 [1/4]	6.35 [1/4]	9.52 [3/8]	9.52 [3/8]	9.52 [3/8]	9.52 [3/8]
Pipe Length	Min-Max	m	3-30	3-40	3-40	5-50	5-50	5-50	5-50
Elevation Difference [ODU Higher]									