

NEW R32 AQUAREA J GENERATION



Much more than just R32 Aquarea J Generation Available in 3/5/7/9kW All in One and Bi-bloc

Keeping Aquarea essence.

- Free space on the top of All in One
- A+++ Ready
- Service Cloud by accessory

What is new?

1. Higher efficiency.

- SCOP up to + 5% vs H Generation
- DHW COP up to 3,30 (for 3 and 5kW models)

2. More flexibility in design.

- 60°C water temperature
- Piping length improved: 7/9kW: 50/30m - 3/5kW: 25/20m
- Chiller function cooling down to 10°C outdoor temperature



3. New smart functions

- SG ready / PV function for cooling
- Utility remote bivalent control: By dry contacts*
- Stop external device when defrost by Dry contact (for Fan Coil fan stop)*

* Can not be used at same time.

4. More comfort

- Better comfort in extreme low temperature: Heating curve can be set up down to -20°C
- Efficient or comfort mode for DHW: Part load for better efficiency or full load to reduce the heat up time
- DHW two sensor position selectable for All in One: Efficient position (best DHW COP) or bigger volume of hot water

Other improvements: More silent outdoor units / Magnet filter for water cycle.



R32 Refrigerant Gas: A 'small' change that changes everything

Panasonic recommends R32 because it is comparably environmentally friendly. Compared to R22 and R410A, R32 has a very low potential impact on the depletion of ozone layer and global warming.

In line with the European Countries who are concerned in protecting and maintaining the environment by participating in the Montreal Protocol to protect the Ozone Layer and prevent Global Warming, Panasonic is leading the switch to R32.

1. Installation innovation.

- Extremely easy to install, practically the same as R410A. (Just remember to verify that the pressure gauge and vacuum pump are compatible with R32)

- This refrigerant is 100% pure, which makes it easier to recycle and reuse

2. Environmental innovation.

- Zero impact on the ozone layer
- 75% less impact on global warming

3. Economic and energy consumption innovation.

- Lower cost and greater savings
- Higher energy efficiency than R410A

New Aquarea High Performance All in One J Generation Single Phase. Heating and Cooling 1 or 2 zones • R32 Gas



NEW
2019

Technical focus

- Top level COP 5,33 • Reduced installation costs • Piping at the bottom of the All in One (easy to install) • Reduced installation time and minimised installation errors • Easy remote controller to set up • Reduced installation spaces • Electrical connections at the front • Easier installation and maintenance • Remote controller functions (cooling mode activation possible by software. This activation can only be done by service partner)



CZ-TAW1
Cloud connection. For user control and installer remote maintenance.

Tentative Data			Single Phase (Power to indoor)			
Kit* 1 zone (for 2 zone add B at the end)			KIT-ADC03JE5	KIT-ADC05JE5	KIT-ADC07JE5	KIT-ADC09JE5
Heating capacity / COP [A +7°C, W 35°C]	kW / COP		3,20/5,33	5,00/5,00	7,00/4,76	9,00/4,48
Heating capacity / COP [A +7°C, W 55°C]	kW / COP		3,20/2,81	5,00/2,72	7,00/2,82	8,95/2,78
Heating capacity / COP [A +2°C, W 35°C]	kW / COP		3,20/3,64	4,20/3,18	6,85/3,41	7,00/3,40
Heating capacity / COP [A +2°C, W 55°C]	kW / COP		3,20/2,19	4,10/1,99	6,20/2,21	6,30/2,16
Heating capacity / COP [A -7°C, W 35°C]	kW / COP		3,30/2,80	4,20/2,59	5,60/2,87	6,12/2,78
Heating capacity / COP [A -7°C, W 55°C]	kW / COP		3,20/1,79	3,55/1,71	5,25/1,94	5,90/1,93
Cooling capacity / EER [A 35°C, W 7°C]	kW / EER		3,20/3,52	4,50/3,00	6,70/3,03	7,60/2,90
Cooling capacity / EER [A 35°C, W 18°C]	kW / EER		3,20/4,85	4,80/4,29	6,70/4,72	7,60/4,37
Seasonal energy efficiency - Heating Average Climate [W35°C / W55°C]	ETA %		200/132	200/132	193/130	193/130
	SCOP		5,07/3,47	5,07/3,47	4,90/3,32	4,90/3,32
Energy Class Heating Average Climate [W35°C / W55°C] ¹⁾	A++ to G		A++/A++	A++/A++	A++/A++	A++/A++
Energy Class Heating Average Climate [W35°C / W55°C] ¹⁾	A+++ to D		A+++/A++	A+++/A++	A+++/A++	A+++/A++
Seasonal energy efficiency - Heating Warm Climate [W35°C / W55°C]	ETA %		245/155	245/155	227/160	227/160
	SCOP		6,20/4,20	6,20/4,20	5,75/4,07	5,75/4,07
Energy Class Heating Warm Climate [W35°C / W55°C]	A++ to G		A++/A++	A++/A++	A++/A++	A++/A++
Energy Class Heating Warm Climate [W35°C / W55°C]	A+++ to D		A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Seasonal energy efficiency - Heating Cold Climate [W35°C / W55°C]	ETA %		157/99	157/99	164/116	164/116
	SCOP		4,00/2,83	4,00/2,83	4,18/2,98	4,18/2,98
Energy Class Heating Cold Climate [W35°C / W55°C]	A++ to G		A++/A+	A++/A+	A++/A+	A++/A+
Energy Class Heating Cold Climate [W35°C / W55°C]	A+++ to D		A+++/A+	A+++/A+	A+++/A+	A+++/A+
Indoor unit 1 zone hydrokit			WH-ADC0309J3E5	WH-ADC0309J3E5	WH-ADC0309J3E5	WH-ADC0309J3E5
Indoor unit 2 zones built-in hydrokit			WH-ADC0309J3E5B	WH-ADC0309J3E5B	WH-ADC0309J3E5B	WH-ADC0309J3E5B
Sound pressure	Heat / Cool	dB(A)	28/28	28/28	28/28	28/28
Dimension	HxWxD	mm	1800x598x717	1800x598x717	1800x598x717	1800x598x717
Net weight 1 zone / 2 zones		kg	122/130	122/130	122/130	122/130
Water pipe connector		Inch	R 1 1/4	R 1 1/4	R 1 1/4	R 1 1/4
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W	30/120	30/120	30/120	30/120
Heating water flow [ΔT=5 K, 35°C]		L/min	9,20	14,30	20,10	25,80
Capacity of integrated electric heater		kW	3,00	3,00	3,00	3,00
Recommended fuse		A	16/16	16/16	25/16	25/16
Recommended cable size, supply 1 / 2		mm ²	3x1,5/3x1,5	3x1,5/3x1,5	3x2,5/3x1,5	3x2,5/3x1,5
Water volume		L	185	185	185	185
Maximum water temperature		°C	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L	L
DHW Tank ERP Average climate efficiency rating ²⁾	A to G / A+ to F		A/A+	A/A+	A/A+	A/A+
DHW Tank ERP Warm climate efficiency rating ²⁾	A to G / A+ to F		A/A+	A/A+	A/A+	A/A+
DHW Tank ERP Cold climate efficiency rating ²⁾	A to G / A+ to F		A/A	A/A	A/A	A/A
DHW Tank ERP Average climate ETA / SCOP	ETA % / SCOP		132/3,30	132/3,30	120/3,00	120/3,00
DHW Tank ERP Warm climate ETA / SCOP	ETA % / SCOP		155/3,88	155/3,88	140/3,50	140/3,50
DHW Tank ERP Cold climate ETA / SCOP	ETA % / SCOP		99/2,48	99/2,48	99/2,47	99/2,47
Outdoor unit			WH-UD03JE5	WH-UD05JE5	WH-UD07JE5	WH-UD09JE5
Sound power part load	Heat	dB	55	55	59	59
Sound power full load	Heat / Cool	dB	60/61	64/64	68/67	69/68
Dimension / Net weight	HxWxD	mm / kg	622x824x298/37	622x824x298/37	795x875x320/61	795x875x320/61
Refrigerant (R32) / CO ₂ Eq.		kg / T	0,9/0,608	0,9/0,608	1,27/0,857	1,27/0,857
Pipe diameter	Liquid / Gas	Inch (mm)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)	1/4(6,35)/5/8(15,88)	1/4(6,35)/5/8(15,88)
Pipe length range / Elevation difference (in/out)		m / m	3~25/20	3~25/20	3~50/30	3~50/30
Pipe length for additional gas / Additional gas amount		m / g/m	10/20	10/20	10/25	10/25
Operation range	Outdoor ambient	°C	-20~+35	-20~+35	-20~+35	-20~+35
Water outlet	Heat / Cool	°C	20~60/5~20	20~60/5~20	20~60/5~20	20~60/5~20

Accessories

PAW-ADC-PREKIT-1	Pre installation kit for piping
PAW-ADC-CV150	Decorative magnetic side cover
CZ-NS4P	Additional functions PCB

Accessories

CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
PAW-A2W-RTWIRED	Room thermostat

EER and COP calculation is based on EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C). Insulated tested under EN12897.

¹⁾ Scale from A++ to G and from A+++ to D from 26th September 2019. ²⁾ Scale from A to G and from A+ to F from 26th September 2019.

This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility. * Available in Spring 2019.



INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc H Generation awarded with the prestigious Good Design Award 2017.