

Panasonic

FY2019 Panasonic Air Conditioning



PREMIUM R32 REVERSE CYCLE WALL SPLIT SYSTEM (Z-VKR)

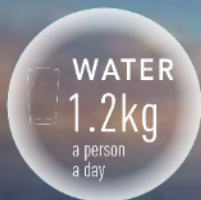
QUALITY AIR FOR LIFE



Panasonic
Air Conditioning

FY2018 Presents

We care about the food we eat, and the water that we drink;
But what about *Air*?



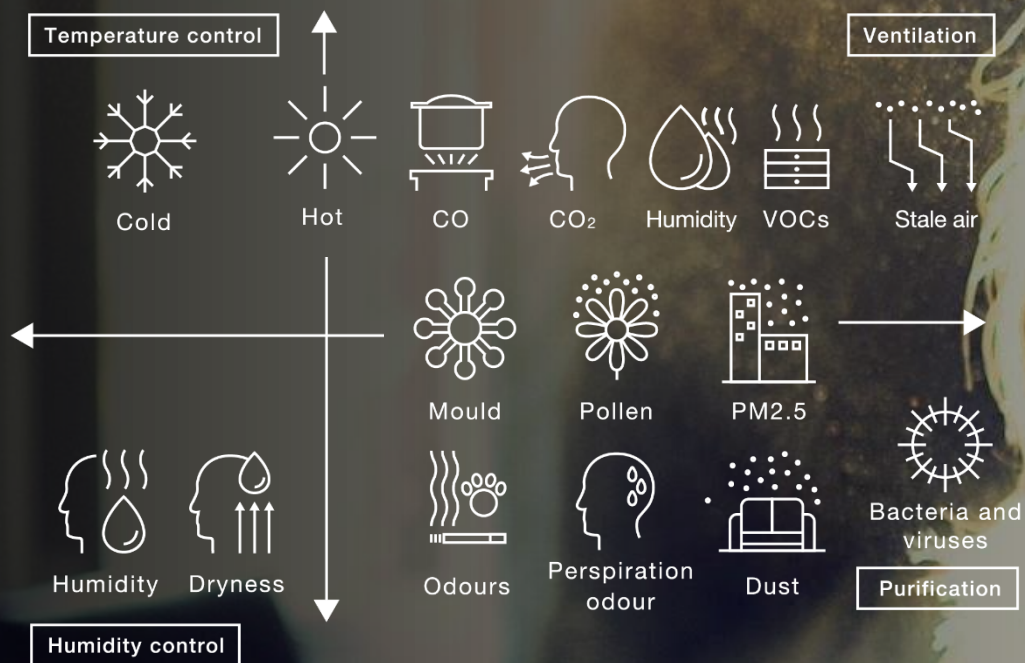
It's **important** to take care of the
ONE thing we consume
the most...

We improve the Quality of Air, so you can improve the Quality of Life.

QUALITY AIR FOR LIFE



Polluted air flows in from the outside unnoticed.



Indoor air can be
more harmful
than outdoor air.



Current Air Issues

We spend most of
our time indoors
to stay away from the
pollution outside.

But, is the indoor air
really clean?

Imagine polluted air is
trapped indoors...



Discomforts



Illness



Low Productivity



Allergies



Sleep Disorders



Allergies

To improve the *Air* we breathe...

FY2019 Presents

Panasonic



Complete Air Solutions



nanoe
TECHNOLOGY

* Z-VKR only

Complete **Air Purification**



Complete **Air Conditioning**



Panasonic
Comfort Cloud

works with the
Google Assistant

WORKS WITH
alexa

Connectable up to
200 Units
20 units per room

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of Amazon.com, Inc. or its affiliates.

Complete **Air Connectivity**



AEROWINGS

Complete **Air Ventilation**

Complete Your Air, Complete Your Life.

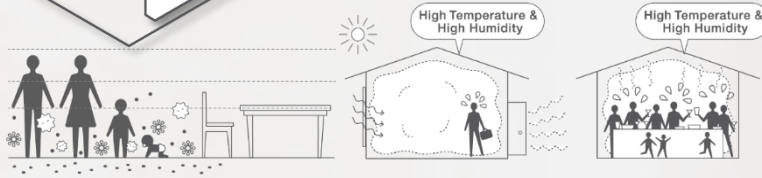
While we spend
most of our time indoor...

Total
14 hrs

4h

Living Room

Enjoy family time



2h

Dining Room

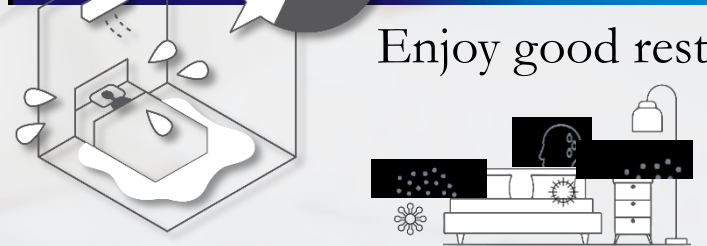
Enjoy family meals

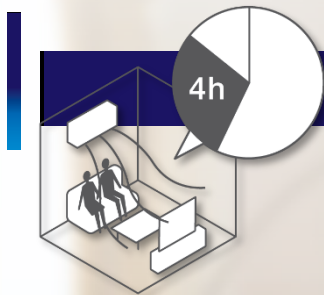


8h

Bedroom

Enjoy good rest





Living Room

When you are away from home...



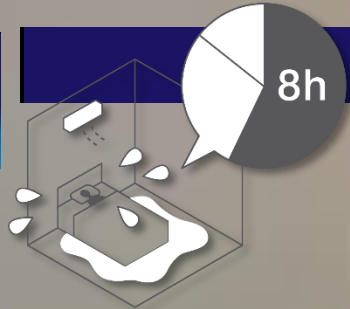
Hot stale air trapped indoor



Garbage / food odour spreading to living room



Growth of bacteria & viruses, mould



8h

Bedroom

Space to relax and unwind...

(Of total 14 hours at home)

Perspiration on pillow and bed
linens



Growth of mould & musty
smells



Disturbing noise from AC
operation



High humidity & odour in
wardrobe



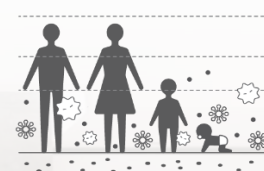


Complete Air Solutions For Living Room

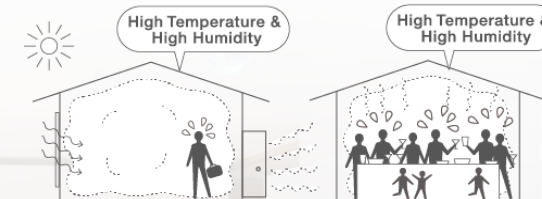
Quality Time In The Heart Of The Room

Enjoy family time

Viruses
Mould
Dust mites
Dust



Unstable Temperature



Cleaner Space for kids

nanoeX



* Z-VKR only

All-round Comfort for Everyone

AEROWINGS



Efficiency & Stable Temperature

INVERTER



Pre-cool Homes



* CZ-TACG1 required

2019 NEW

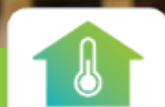
Complete Air Purification Purifies Your Air Wherever You Are



Only 35W
Operates on fan mode only



Maintenance Free
For nanoe™ X Device Generator



Panasonic
Comfort Cloud

Purifies When You are Away

Return to a refreshing home every time

* Z-VKR only and CZ-TACG1 required



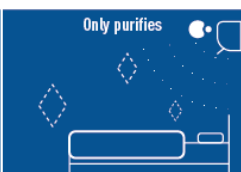
Time spent away
10hrs

Living Room + Dining Room



Only purifies

Bedroom



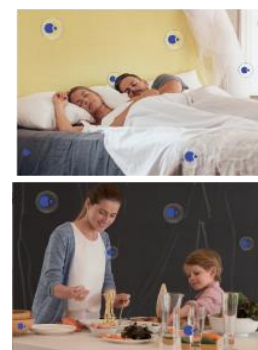
Only purifies



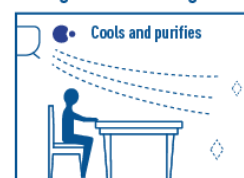
Purifies When You Are At Home

A Clean and Comfortable Space for Loved ones

* Z-VKR only and CZ-TACG1 required



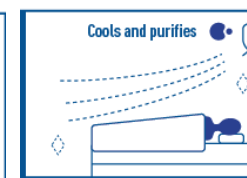
Living Room + Dining Room



Cools and purifies

Time spent in the room: 6hrs

Bedroom



Cools and purifies

Time spent in the room: 8hrs

QUALITY AIR FOR LIFE

Panasonic
Air Conditioning



The 7 benefits of nanoeTM X.



Active Deodorisation



Inhibits of Bacteria & Viruses



Inhibits Growth of Mould



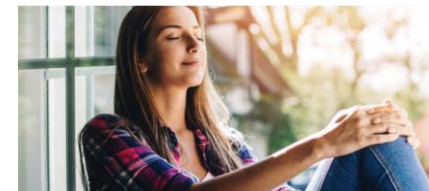
Inhibits Major Allergens



Inhibits Pollen



Breaks down Hazardous Substances



Hydrates & Moisturises



NEW

nanoe™ X

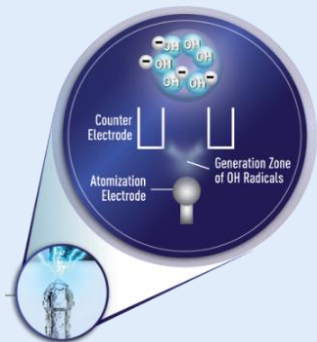
* Z-VKR only



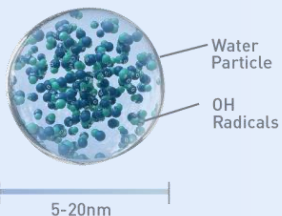
Only
Panasonic
LGUS2QUIC

Deodorises

Inhibits Bacteria & Viruses

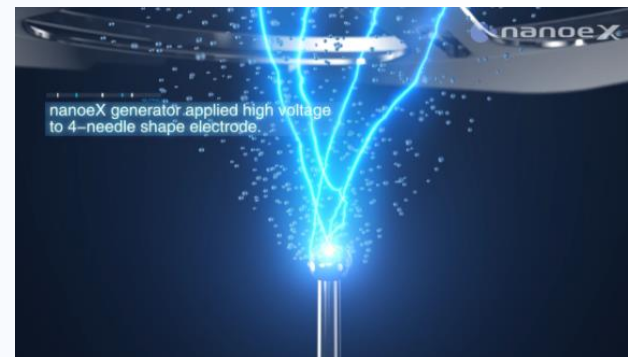


4.8 trillion
OH Radicals / per second

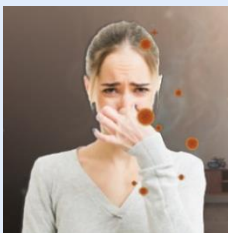


nanoe™ X device uses a “multi-leader discharge” system with an expanded OH radical generating area. It can produce 10x times more OH radicals.

Outstanding effects on bacteria & viruses inhibition, deodorisation.

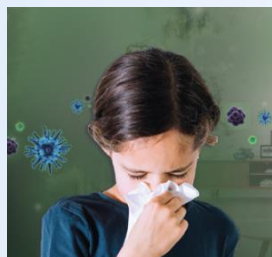


Deodorises

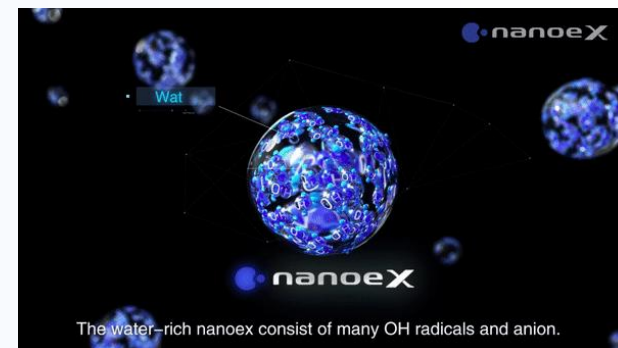


nanoe™ X deodorises odours and stench, so you can enjoy a more pleasant living space.







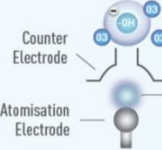
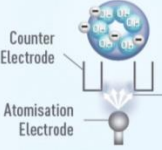
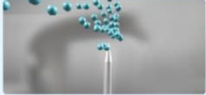



Inhibits Bacteria & Viruses



nanoe™ X inhibits growth of allergens, bacteria and viruses, keeping your home clean for your children.



Comparison between nanoe™, nanoe™X, nanoe-G

			
Main Components	 Generation Zone of OH Radicals: Small	 Generation Zone of OH Radicals: Large	 Negative Ions
Device Generator	 Counter Electrode Atomisation Electrode Generation Zone of OH Radicals: Small	 Counter Electrode Atomisation Electrode Generation Zone of OH Radicals: Large	
Deodorises	○	●*	▲
Inhibits Growth of Bacteria & Viruses	○	●	▲ (Collective)
Dust Removal (PM2.5)	×	×	●
Discharge System	Electrostatic Atomisation (Corona Discharge)	Electrostatic Atomisation (Multi-leader Discharge)	Plasma Discharge
Size	5 - 20 nm	5 - 20 nm	1 - 2 nm
OH Radical	480 billion OH radicals / sec	4.8 trillion OH radicals / sec	3 trillion negative ions / sec
Generating Principle	 nanoe™ is generated.	 In a broad plasma area, part of a product, ozone, is also partially broken down to contribute to generation of OH radicals.	 Natural ion wind spreads nanoe-G negative ions that are released from the nanoe-G generator.
<div> ● : Very Effective ○ : Effective ▲ : Moderate × : Not Effective </div>			
<p>* Comparison of 4.8 trillion OH radicals per second in nanoe™X with 480 billion OH radicals per second in nanoe™. Measured using the ESR method (based on our survey)</p> <p>* Actual effect differs according to room condition and the way of use. nanoe™ and nanoe™X have a function to inhibit activity or growth of viruses, etc. but do not assure infection prevention.</p>			

Expanding the nanoe™ world in Japan - 24/7, anytime, anywhere

Increasingly adopted in a wide range of industries, such as railway, automotive, hotel, and hospital industries

Public transport



JR Kyushu

Cruise trains: Adopted for the Seven Stars in Kyushu



KEIHAN
Keihan Railway

Keihan Main Line: Adopted for admission-paid special railcars



KEIO

Kelo Line: Adopted for new railcar models



JR East

Yamanote line: Adopted for new railcar models

Office



4-way cassette air conditioners



HITACHI



日立エレベーター株式会社

Automobile



TOYOTA

Expanding adoption to 35 models
(As of June 1st, 2018)



LEXUS

MITSUBISHI MOTORS

adopted for 1 model



adopted for 3 models



Adopted as option accessory



MAZDA

SUBARU CORPORATION.

Home



Humidifying air purifiers



Humidifiers



Clothes drying dehumidifiers



Fans



Air conditioners



Morning commute

Office

Evening commute

Home

12:00

06:00

18:00

24:00

Public spaces



Ceiling-embedded nanoe™ generators

Hotels



Hiroshima Washington Hotel



Parkside Hotel

Cafes



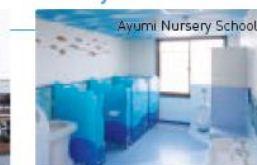
Cafe Doll

Hospitals



Sakana Machi Hospital

Nursery schools



Ayumi Nursery School

Nursing homes



Samukawa Nursing Home

Panasonic is committed to the improvement of air quality with nanoe™ Technology.

Trade names, trademarks and images of products/services are used in this material under approval by the entities concerned in Japan. (As of June 1st, 2018)



A Smarter Way to Control Your Air

Centralised control makes optimising air conditioner performance easy.

SMART Control

Control, monitor & analyse up to 200 units in multiple locations from just one device.

SMART Comfort

Control your comfort 24 hours a day with remote AC access features, air purification functionality and much more.

SMART Efficiency

Analyse and compare energy consumption, improving energy efficiency and cost effectiveness.

SMART Assist

Monitor & manage air conditioner troubleshooting effortlessly whilst assigning user control permissions.

Intuitive Voice Control



Control air conditioning units by voice command connecting to Intelligent Voice Control System

Time of release third quarter 2019
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Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

*CZ-TACG1 Network Adaptor required per indoor unit. Requires an Internet connection and the App downloaded from the App Store or GooglePlay Store on your smartphone or tablet with the latest Operating System available.

•To use Amazon Alexa to control your air conditioner, you will need an Amazon Echo device.

•To use Google Assistant to control your air conditioner, you will need an Google Assistant device.

*Indoor temperature display and some special function are not available through the App for all models.

Compatible Device and Browsers

1. iOS 9.0 or above
2. Android 4.4 or above

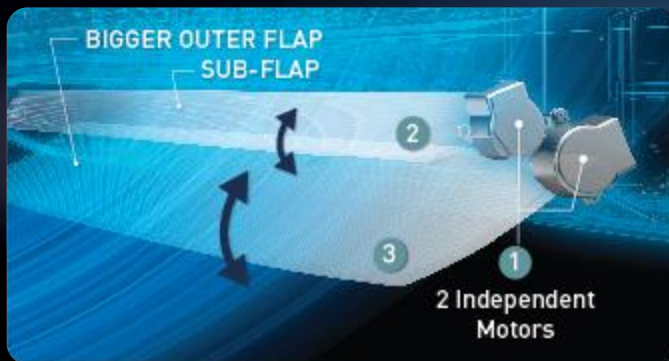


Please note: This is not a definitive list of all compatible devices, other similar devices which use supported Operating Systems should also work either via dedicated Apps. Please note that user experience may vary slightly depending on hardware and software combination.

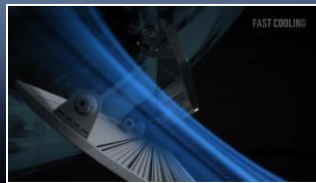
AEROWINGS

Concentrate Airflow
FURTHER, FASTER

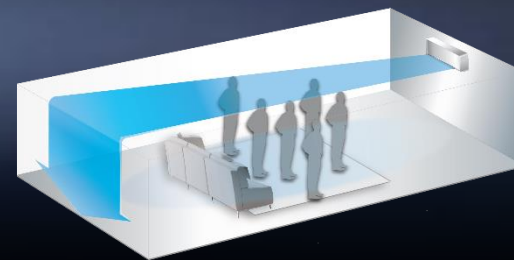
Controlled by 2 independent motors
& 2 independent blades



SHOWER COOLING



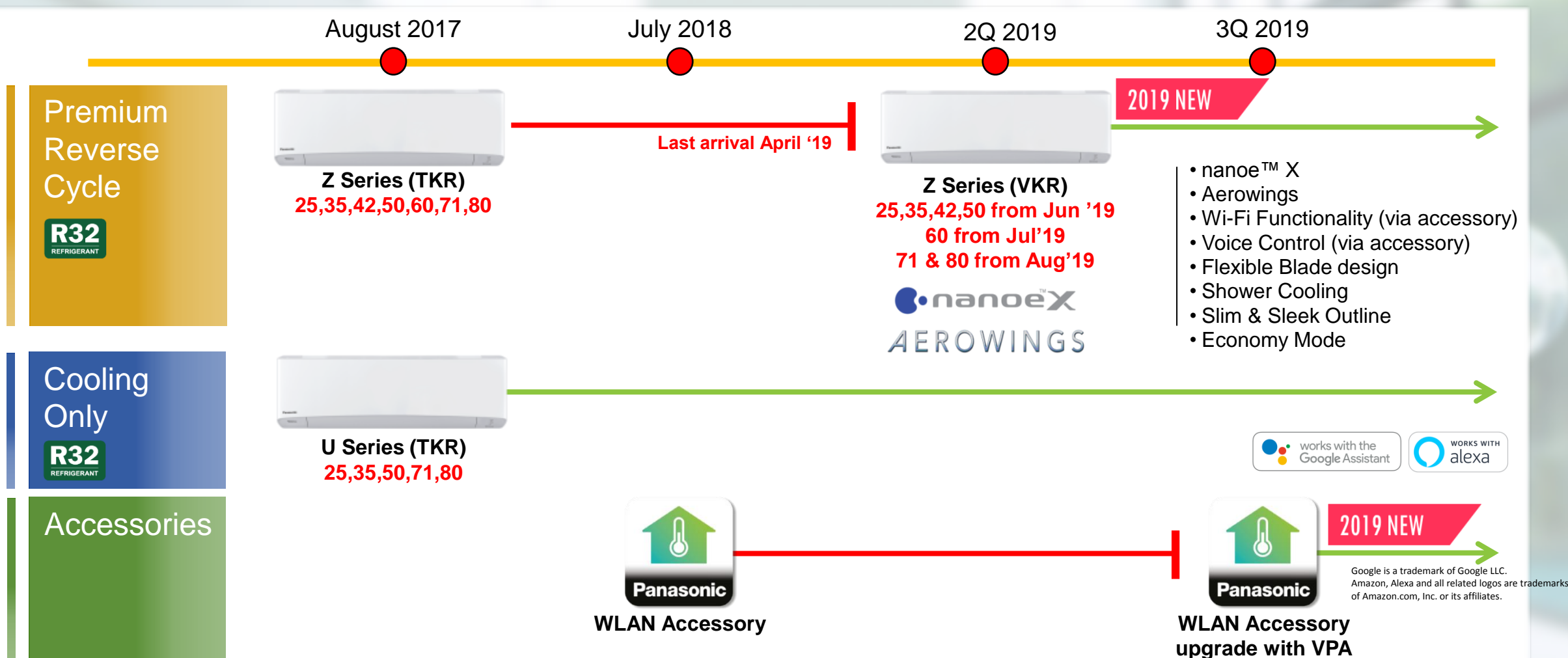
FAST COOLING



2 independent blades with 2 motors direct cool air
faster and further across the room.

2019 New Product Road Map

Panasonic



Premium Reverse Cycle (Z-VKR)

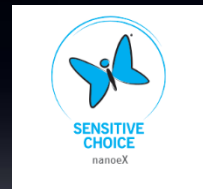
NEW

AERO SERIES

Premium Reverse Cycle Inverter
Z Model (VKR)



 nanoeX™



R32
REFRIGERANT



Time of release third quarter 2019
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INVERTER AEROWINGS



Premium Reverse Cycle (Z-VKR)

NEW

AERO SERIES

Premium Reverse Cycle Inverter Z Model (VKR)

- Cooling, Heating, Air Purification
- Wide range: 2.5, 3.5, 4.2, 5.0, 6.0, 7.1 & 8.0kW
- Market Leading Energy Efficiency
- Standalone 24Hours*¹ nanoe™X Air Purification
- Shower Cooling / Fast Cooling
- WLAN Anywhere, Anytime Control*¹
- Intuitive Voice Control*²
- Wide Operating Range for Cooling: +5°C ~ +46°C
- Wide Operating Range for Heating: -15°C ~ +24°C

Indoor Dimension (H x W x D)	Z-TKR	Z-VKR
2.5kW ~ 4.2kW	295 x 919 x 194	295 x 919 x 194
5.0kW ~ 8.0kW	302 x 1,120 x 236	302 x 1,120 x 236






*¹ CZ-TACG1 Network Adaptor required

*² Time of release third quarter 2019

CZ-TACG1 Network Adaptor required per indoor unit. Requires an Internet connection and the App downloaded from the App Store or GooglePlay Store on your smartphone or tablet with the latest Operating System available.

To use Amazon Alexa to control your air conditioner, you will need an Amazon Echo device.

To use Google Assistant to control your air conditioner, you will need an Google Assistant device.

Feature	Current Model (Z-TKR)	New Model (Z-VKR)
	NO	YES
	NO	YES (CZ-TACG1 Required)
	YES	YES
	YES	NO
	YES	NO (ECO Mode)



THANK YOU

AIR IS LIFE

AIR IS COMFORT

AIR IS ENERGY

 QUALITY AIR FOR LIFE