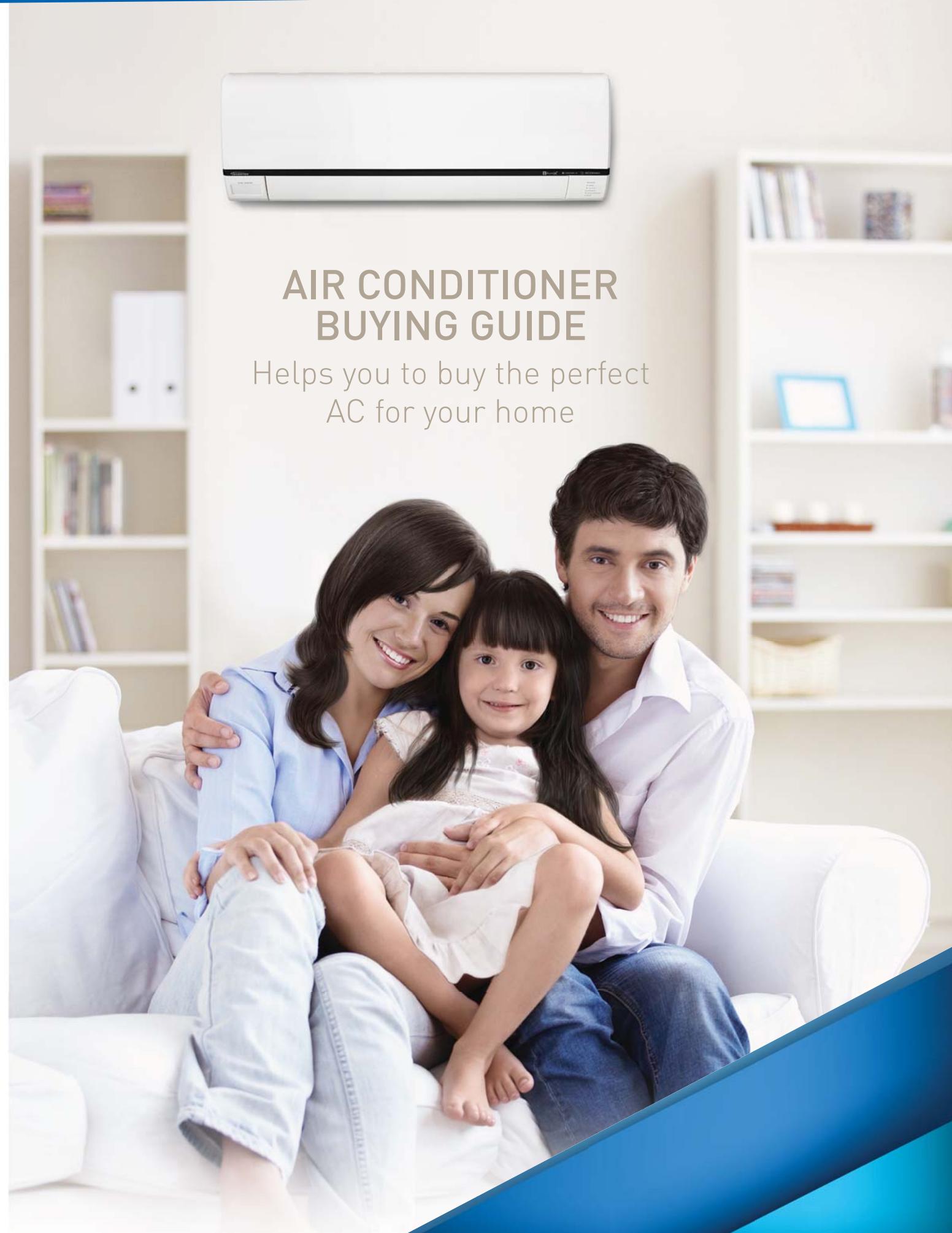


Please read the installation and the operating Instructions carefully before installing and using it.
Specifications are subject to change without prior notice.
The contents of this catalogue are accurate as of January 2017.
Due to printing considerations, the actual colours may vary slightly from those shown in the catalogue.
All graphics are provided merely for the purpose of illustrating a point.

AC-ASIA-C-16



AIR CONDITIONER BUYING GUIDE

Helps you to buy the perfect
AC for your home

Most important features to look for in an Indoor Unit



① Air Quality

Types of pollutants

1] **Pollen** – There are countless types of Pollen suspended in the air. They can cause allergies & aggravate Asthma.



2] **Bacteria** – They are responsible for bacterial diseases.



3] **PM2.5** – There are two types of PM2.5 particles.

a) Dust particles –
These become the carriers for Bacteria & Viruses.



b) Carbon particles –
These are present in the gases emitted by vehicles & factories.

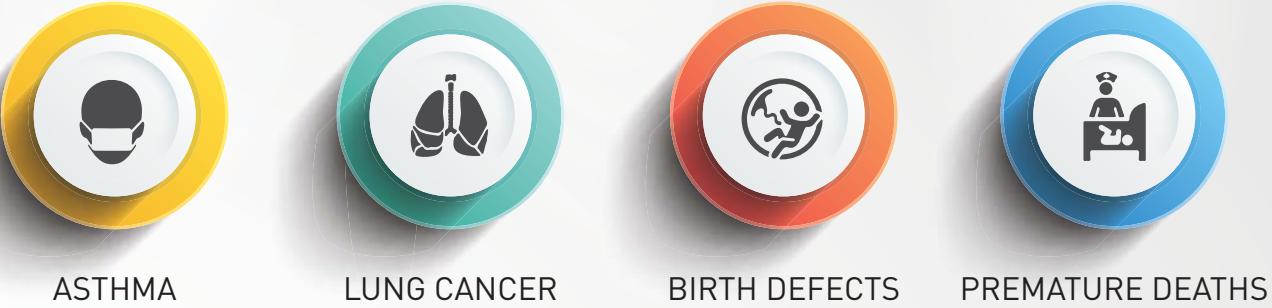


PM2.5: AN UNSEEN POLLUTANT HARMING US

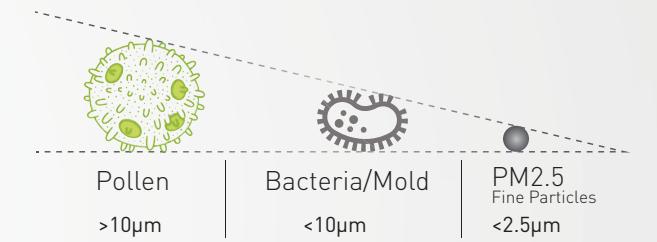


City	PM 2.5 Level	City	PM 2.5 Level
Gwalior	176	Lucknow	163
Allahabad	170	Kolkata	134
Patna	149	Mumbai	109
Raipur	144	Ahmedabad	141
Delhi	153	Hyderabad	112
Ludhiana	122	Bhopal	106
Kanpur	220	Varanasi	306
Agra	141	Noida	768
Amritsar	134	Ludhiana	102
Gurgaon	280	Patiala	102
Jodhpur	105	Rajkot	294
Faridabad	193	Vishakhapatnam	163
Varanasi	185	Vadodara	294
Pune	210	Jamshedpur	218
Bengaluru	310	Goa	203
Chennai	179		

PM2.5: ADVERSE HEALTH EFFECTS



What is PM2.5?
Fine Particulate matter
size comparison



An AC can also purify room air

3 STAGE AIR PURIFICATION

ENJOY POLLUTANT FREE AIR, 365 DAYS A YEAR.

STAGE1



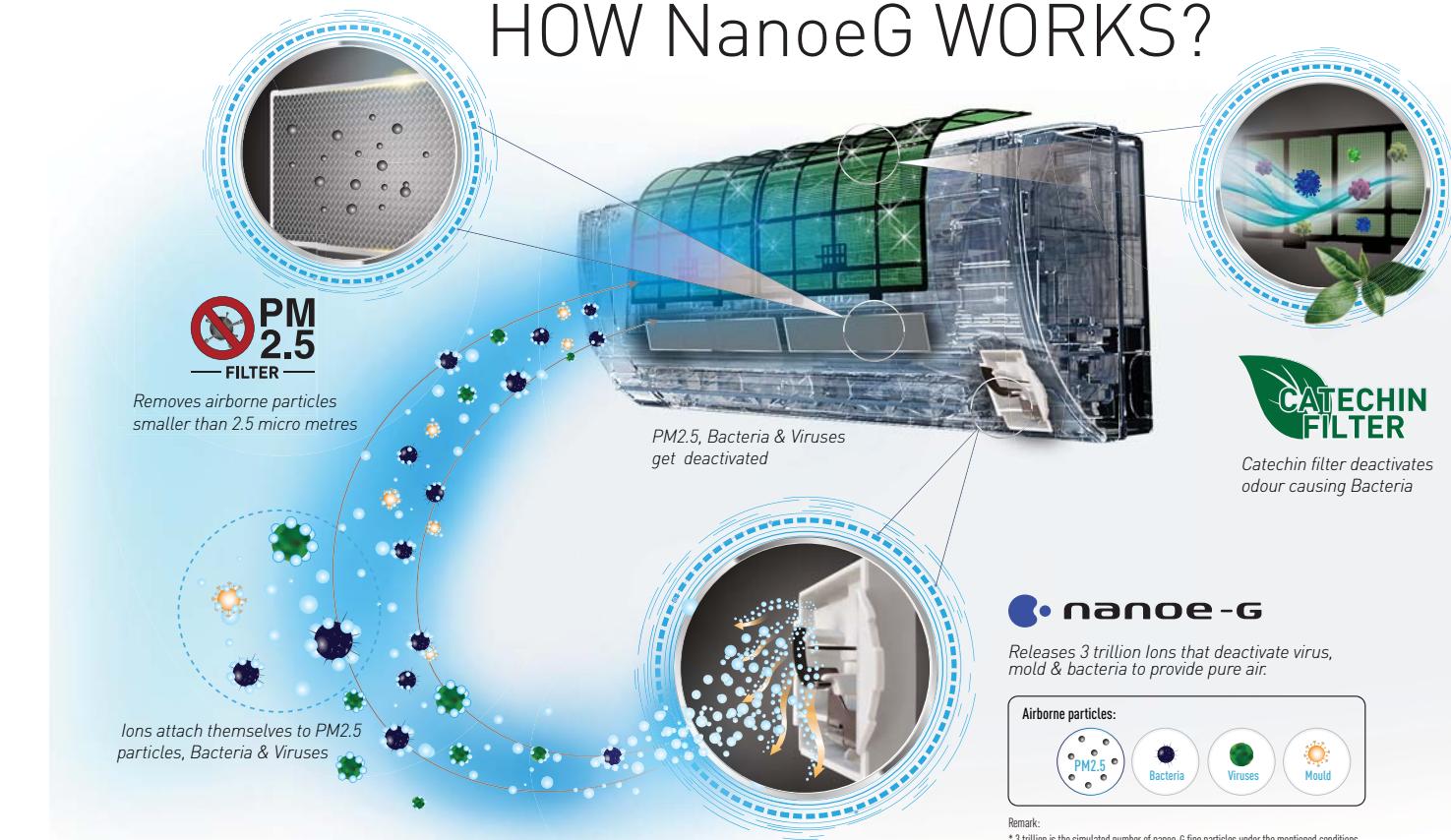
Catechin Filter



Removes Bacteria & odour

Catechin Filter is coated with tea leaf extracts that deactivates Bacteria and bad odours circulating in the room atmosphere hence making the air fresh and odour-free.

HOW NanoeG WORKS?



STAGE3

PM2.5 Active Filtration – NanoeG

NanoeG is a technology available exclusively with Panasonic Air Conditioners for removal of PM2.5 particles. In this, the NanoeG unit releases 3 trillion ions in the room. As these ions spread through the room, they attach themselves to Bacteria, Viruses & dust particles rendering them inactive. When these PM2.5 particles along with ions are sucked back into the AC, these pollutants get attached to evaporator grill of the indoor unit and air passing out is free of these pollutants.

nanoe-G Releases 3 trillions*

Airborne particles:



② Blower Size

More air discharge

Blows more air in the room

Airflow till far

Airflow is stronger hence travels further

Higher CFM

Higher Cubic Feet Per Minute (CFM) air exchange through the IDU* ensures that there is\ no feeling of suffocation and room is adequately ventilated

*Indoor Unit

Panasonic

WIDER IDU



42 inches

PS18SKY

SMALLER IDU



36 inches

SMALLER IDU



36 inches

③ Fire safety

Panasonic Air Conditioner Indoor unit PCB housing material is Fire Retardant type. Therefore, in case Fire is generated inside PCB housing due to a short circuit, Fire won't come outside the metal box & it will be stopped there itself without damaging the surroundings or any other part.



Panasonic

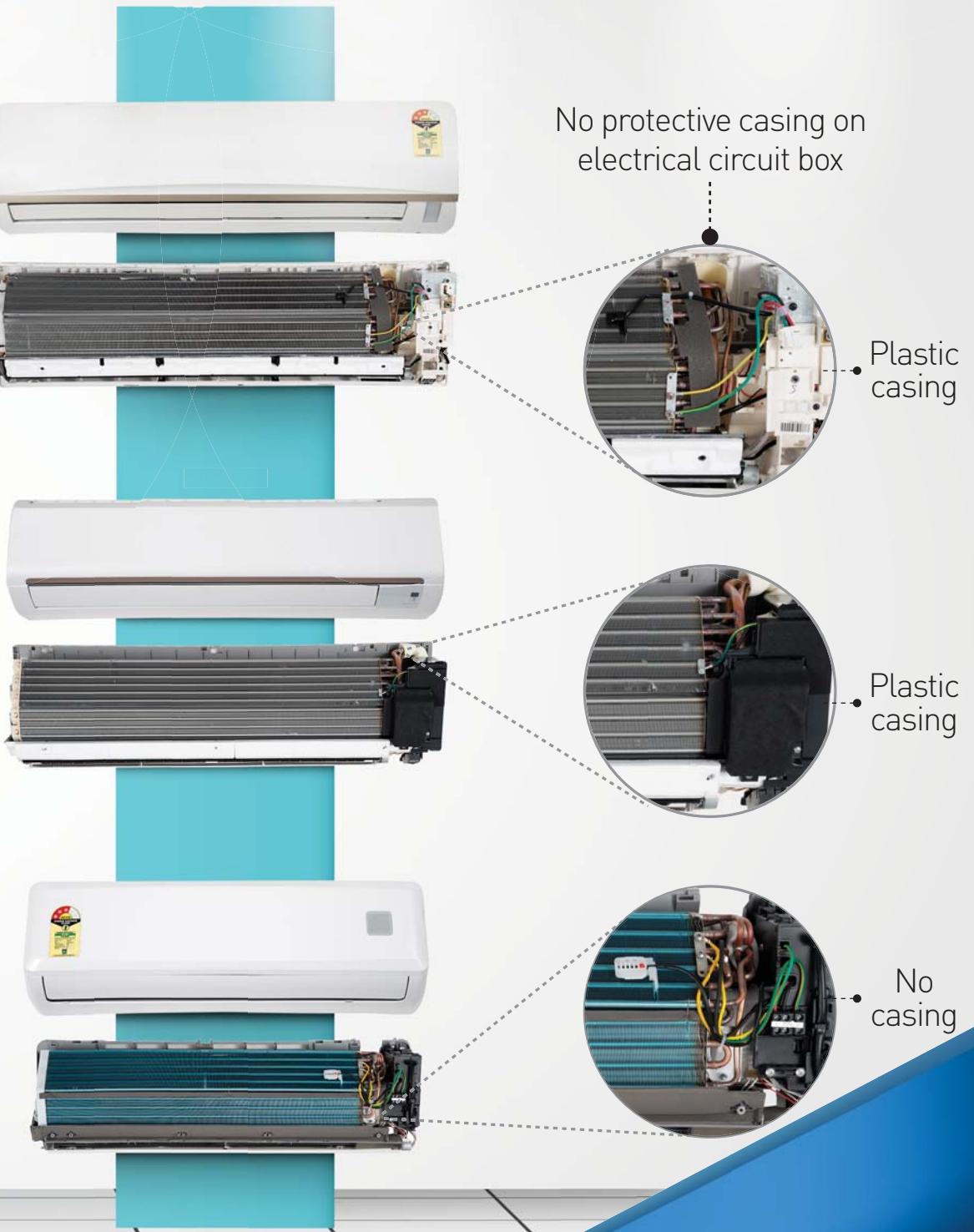


Protective metal
casing on electrical
circuit box



PS18SKY

This is what can happen to IDU
without protective casing on
Electric circuit



No protective casing on
electrical circuit box

Plastic
casing

Plastic
casing

No
casing

OUTDOOR
UNIT



OUTDOOR
UNIT

What to look for in an outdoor unit

Tubing

Corrosion
Resistance

Size of Heat
Exchanger

Quality of
Condenser

Fan
Blades

Tubing

Panasonic ACs feature Corrugated **Copper tubing** that is capable of better heat transfer as compared to Non Corrugated copper tubing. It cools the refrigerant gas faster & **enhances energy efficiency**.

Panasonic



- Larger surface area because of corrugation
- 2X-heat transfer speed

Other Brand



- No corrugation
- X-heat transfer speed

Copper Tubing

COPPER TUBING

OTHER BRAND DISADVANTAGES

Lower thermal conductivity

Delayed cooling process

Slow heat exchange

PANASONIC ADVANTAGES

Higher thermal conductivity

Cools down instantly to enhance efficiency

Up to 2X faster heat exchange (corrugated copper tubes)

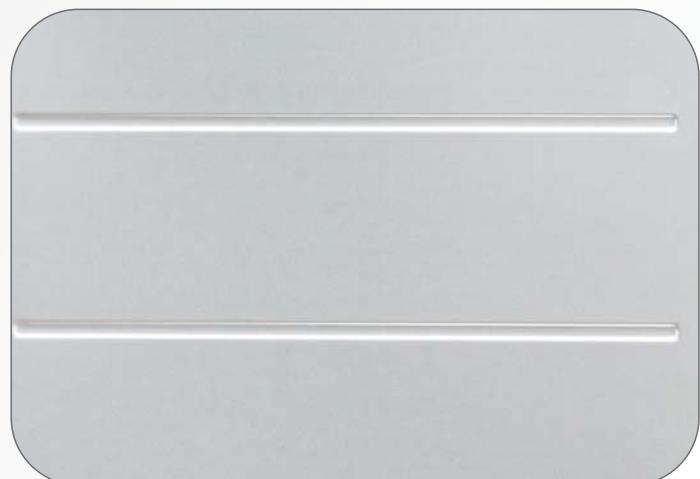
Corrosion Resistance

Panasonic is the only brand offering 5 year rust warranty on Air Conditioner ODU*.

The external metal casing of the outdoor unit is made up of Superdyma metal sheet which is highly rust resistant. This makes the outdoor unit rust free and eliminates the need for painting or any other kind of maintenance.



Panasonic



Superdyma Metal sheet

After 3 years of use



PS18SKY

*Applicable to ODU with Superdyma metal sheet

OTHER BRAND DISADVANTAGES

Prone to corrosion

Regular maintenance needed

Shorter life

SUPERDYMA ADVANTAGES

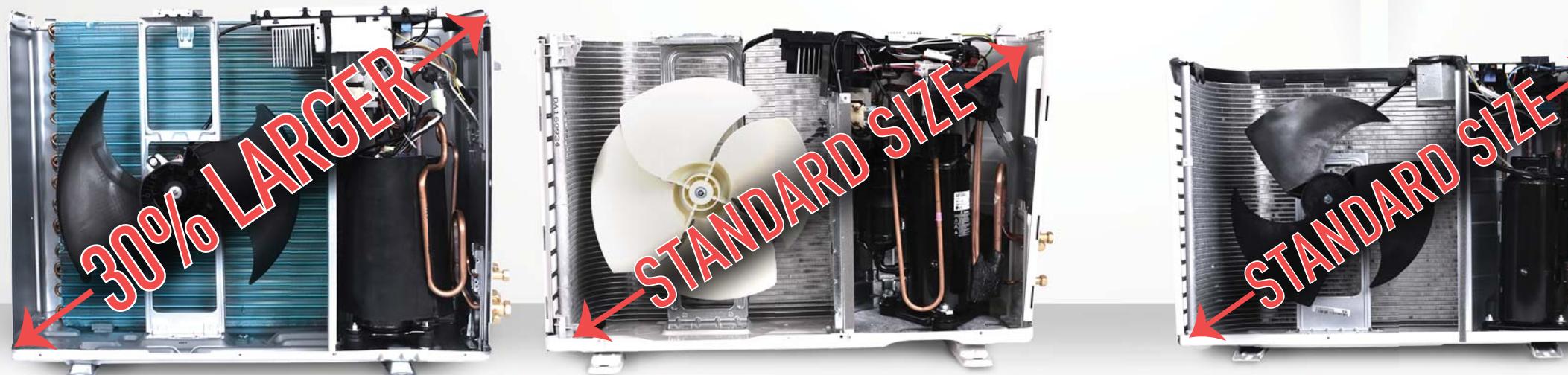
Corrosion-free

No maintenance cost

Longer life as compared to painted ODUs

Size of Heat
Exchanger

In an inch-to-inch comparison, Panasonic has one of the **biggest Heat Exchangers** in the category. This **ensures faster & better cooling** even at high outdoor ambient temperature of around 52°C.



Panasonic

PS18SKY

OTHER BRAND
DISADVANTAGESRegular
DesignSmall Heat
ExchangerSlow
CoolingPANASONIC
ADVANTAGES

XXL Design

Large Heat
ExchangerQuick
Cooling

ADVANTAGE OF BLUE FIN CONDENSER

Quality of
Condenser

Panasonic ACs have **Blue Fin Condensers** that have an anti-rust coating. This enhances the life of the condenser. The condenser also has higher Fins Per Inch which ensures increased efficiency due to better heat exchange.



Blue Fin Condenser

Panasonic ~ 20 Fins Per Inch
Other Brand ~ 16 Fins Per Inch

OTHER BRAND
DISADVANTAGES

No protection
from rust

Prone to corrosion
from salty air, dust,
wind & sunlight

Shorter life

PANASONIC
ADVANTAGES

Anti-rust coating

Salty air, dust,
wind & sunlight resistant

Longer life

Other Brand



- Aluminum Condenser
- No protective Coating

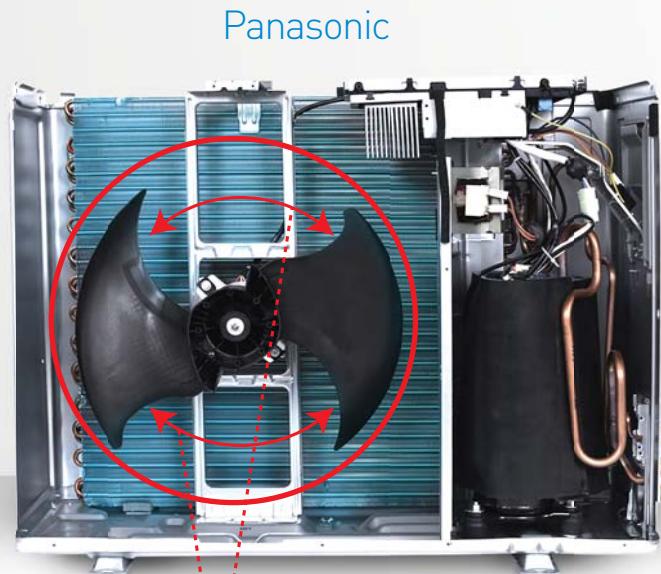
Panasonic



- Copper Condenser
- Anti-rust Coating

Fan Blades

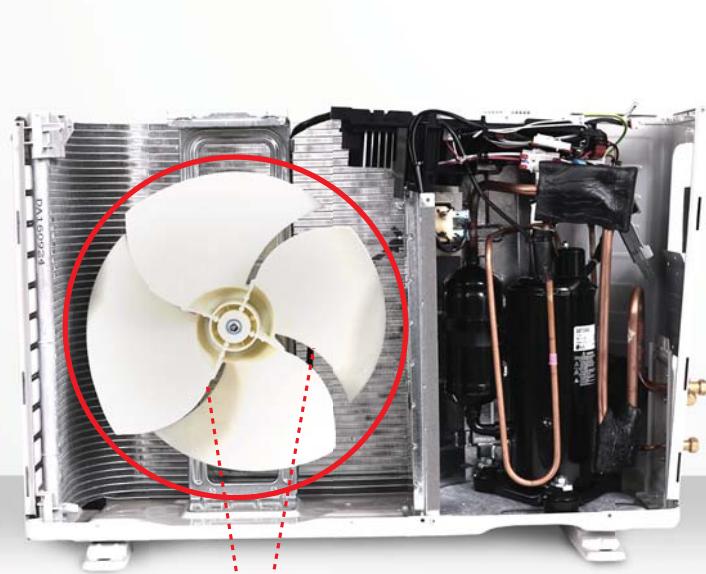
Panasonic Air Conditioners feature **Twin Blades** that accelerate the condenser cooling process that **save you power**, cool the room faster & ensure lower load on the compressor even at high ambient temp. up to 52° C.



Twin Blades

More Inter-blade Space

PS18SKY



4 Blades

Very Less Inter-blade Space



3 Blades

Less Inter-blade Space

OTHER BRANDS DISADVANTAGES

Lesser distance
between blades

Much slower
suction of air

High energy
consumption

PANASONIC ADVANTAGES

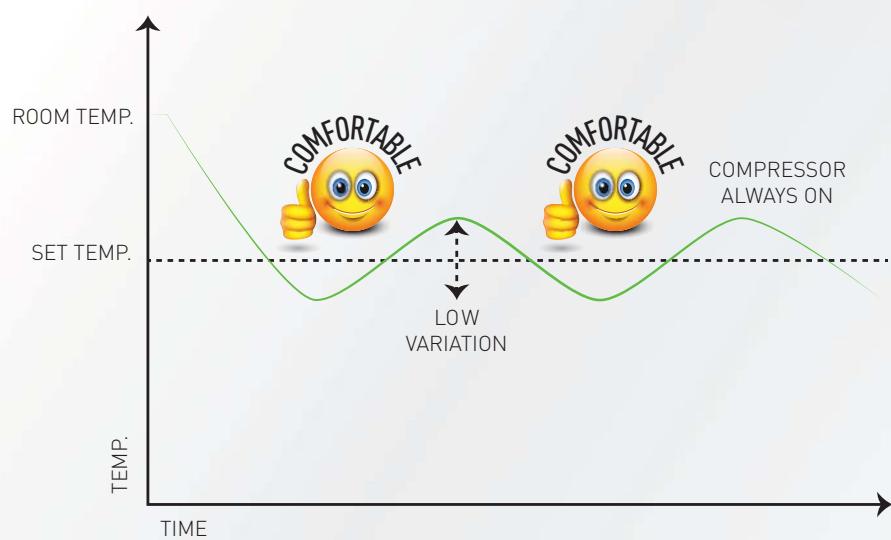
More distance
between blades

Quicker
suction of air

Low energy
consumption

WHAT IS THE BENEFIT OF INVERTER TECHNOLOGY?

INVERTER TECHNOLOGY



WHAT'S SPECIAL ABOUT PANASONIC INVERTER ACS?

OTHER BRANDS

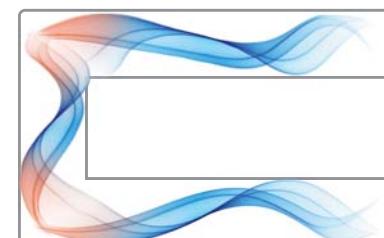
R410 gas + Aluminum/ multi-channel condenser
= Has high risk of gas leakage

Aluminum has lower tensile strength

High oxidation, hence faces problem of **pinholes**.

In case of leakage, Aluminum condenser needs replacement. High cost involved.

Has joints at right angle which creates chances of leakage as R410 is a high pressure gas



MCC = Aluminum

PANASONIC

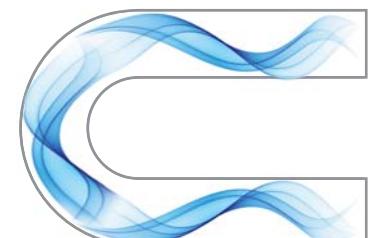
R410 gas + Copper Tubing
= Has low risk of gas leakage

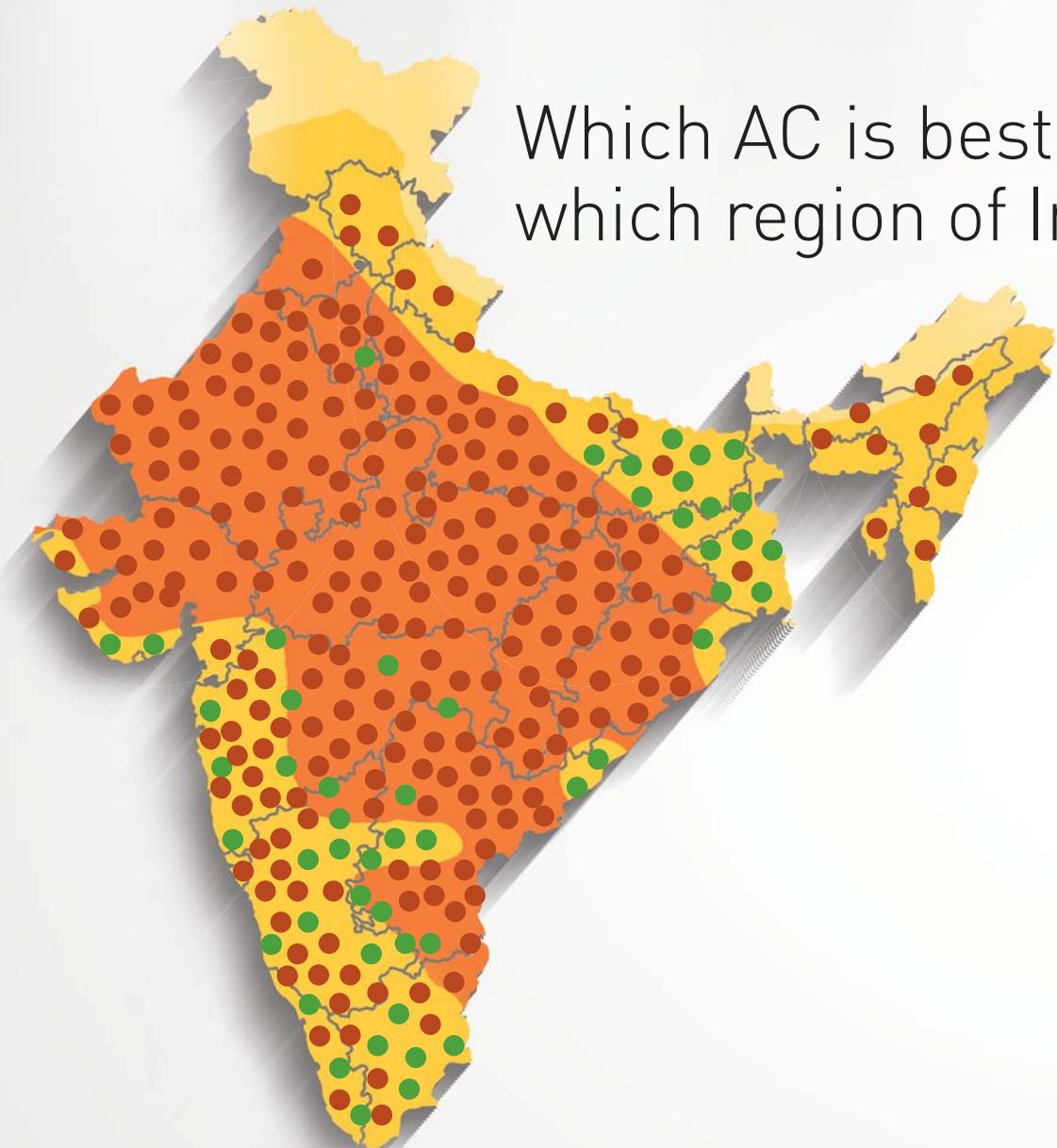
Copper has higher tensile strength

Low oxidation, hence is long lasting.

Can be easily repaired in case a fault appears

Has rounded joints which can withstand pressure of R410 gas easily





■ Inverter ACs

Best for coastal regions where temp. does not cross 38-40° C

■ Fixed Speed ACs

Best for landlocked regions where temp. usually remains between 41~52° C as shown in the map during peak summer.

When you choose an Inverter AC, prefer the one that has Copper tubing and NOT Aluminum tubing/ multi-channel condenser.

***Panasonic
Inverter ACs
feature
Copper Tubing.***



INSTALLATION OF INVERTER AC

Requirements

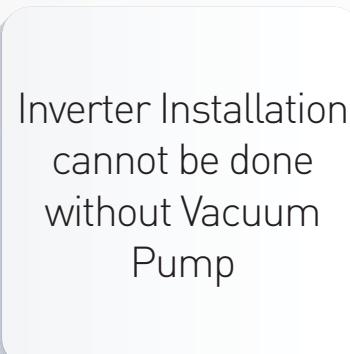
Installation of an Inverter AC is a highly skilled process.

It needs a trained technician and tools that are precise.

Any technician without a proper kit & skills might install the AC incorrectly which could be hazardous.



Skilled Technician is required



Inverter Installation cannot be done without Vacuum Pump



Proper Flaring & Cutting Tools required

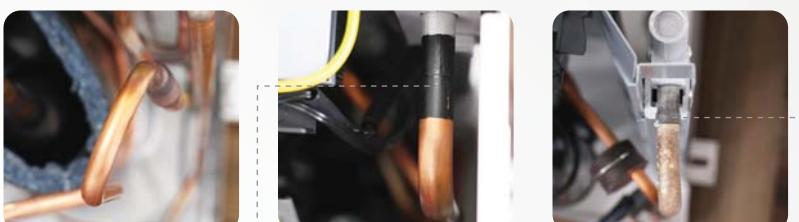
Panasonic Specialized tool kit for Inverter Installation



HOW IS PANASONIC INVERTER AC BETTER?

Panasonic Inverter AC features copper tubing throughout. It has higher tensile strength and is long lasting.

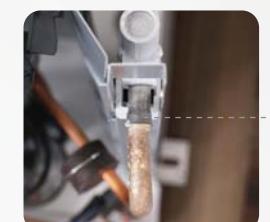
Panasonic



PS18SKY



Poor Aluminum to copper joint



Poor Aluminum to copper joint, highly prone to leakage



Copper Tubing



Large Heat Sink

Heat Sinks are needed to dissipate the heat generated in the controller unit of the inverter and prevent the AC from derating (slow down or stop cooling in case of high ambient temperatures)

Panasonic



Large Heat Sink, more no of fins



Smaller Heat Sink, lesser no of fins



Metal Box, No Heat Sink

Panasonic Inverter AC features a Large Heat Sink that has more plates which gives **more area for the temperature to dissipate**. So even **in high ambient temperatures, the AC won't stop cooling**.

Even the wiring inside is insulated to prevent burning or fire hazard.

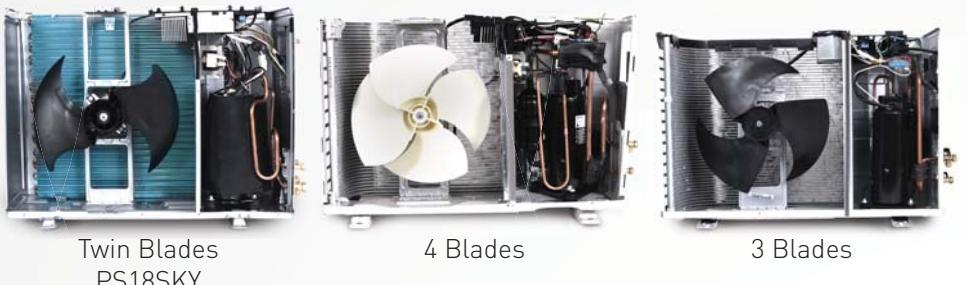
*T&C Apply: Optimum performance is till 46 degree after which once the ambient temperature crosses 46 degree, the performance of machine gets de-rated

HOW IS PANASONIC INVERTER AC BETTER?

Fan Blades

Panasonic Inverter ACs feature Twin Blades that allow for more air to be circulated and hence ensure faster cooling.

Panasonic



HOW IS PANASONIC INVERTER AC BETTER?

Fan Motors Holding Bracket

Panasonic Fan Motors are installed on a bracket that is attached to the main body. This ensures there are no unnecessary vibrations and keeps the noise levels low.

Panasonic



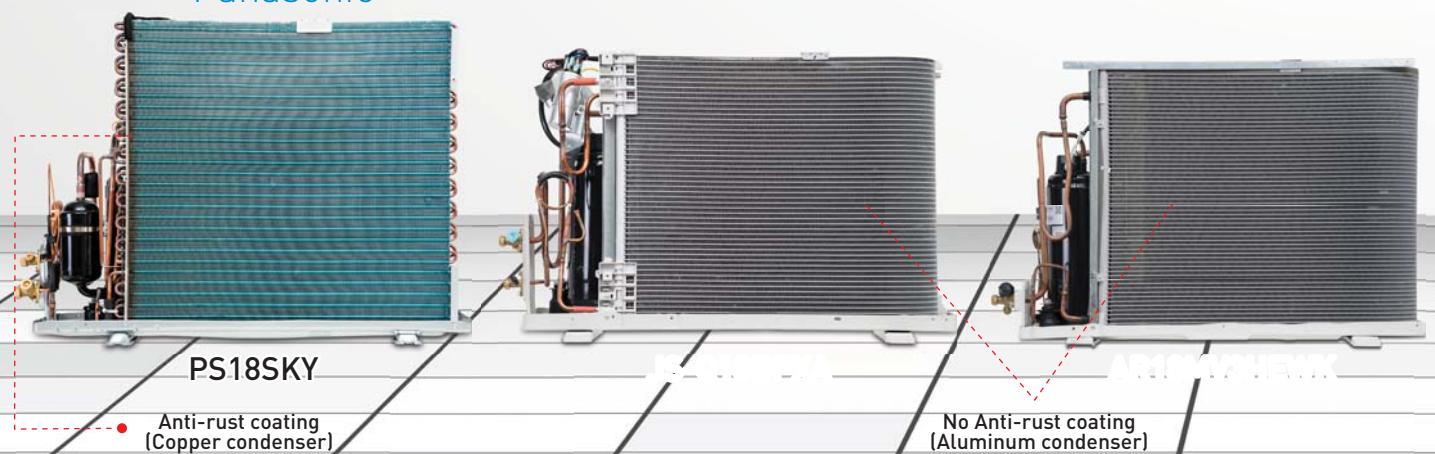
- Fan motor attached to body
- No noise level

- No support, free hanging
- High noise level

Blue Fin Condenser

Blue Fin Condenser has a special anti-rust coating that makes it really long lasting. These condenser tubes are made of Copper that are better than the Aluminum Condenser that other brands offer.

Panasonic



Also, the wiring is neatly tucked behind the bracket to ensure maximum safety.

Panasonic



Don't compromise on quality to save a few thousand rupees