

NEW  
2012



## FLAGSHIP

### WALL MOUNTED FLAGSHIP INVERTER+

- Maximum efficiency and comfort with Econavi, now with sunlight detection
- Nanoe-G air purifying system, 99% effective on both airborne and adhesive mould, viruses and bacteria
- Connectivity function enable to be integrated in network systems easily



#### NANOE-G AIR PURIFYING SYSTEM

Panasonic air conditioners now come with a new air purifying system called Nanoe-G which utilises nano technology consisting of ions and radicals to purify the air in the room. It works effectively on airborne and adhesive micro-organisms such as bacteria, viruses and mould thus ensuring a cleaner living environment.



#### AIRBORNE

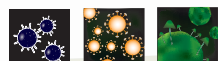
Nanoe-G is able to remove 99%<sup>1</sup> of bacteria, viruses and mould in the air.



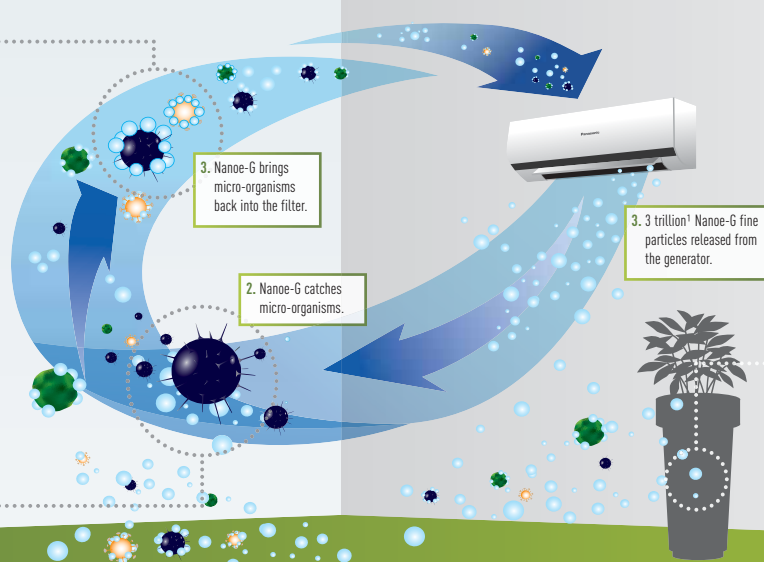
#### THE EFFECTIVENESS OF NANOE-G

2. Airborne Removal was certified by Kitasato Research Center for Environmental Science
- KRCS-Bio. Test Report number : Z3\_0182. Bacteria : Staphylococcus aureus (NBRC 12732)
  - KRCS-Env. Test Report number : Z2\_0008. Virus : Escherichia coli phage (AX-174 ATCC 13706-B1) ; Influenza (H1N1) 2009 virus
  - KRCS-Env. Test Report number : Z3\_0140. Mould : Penicillium pinophilum (NBRC 6345)
- All results are based on specific testing conditions. All tests are not demonstrated under actual usage situation.

#### HARMFUL MICRO-ORGANISMS



Bacteria, viruses and mould.



#### ADHESIVE

Nanoe-G is able to deactivate 99%<sup>3</sup> of adhesive micro-organisms such as bacteria, viruses and inhibits mould growth on surfaces and fabrics.



3. Adhesive Deactivation was certified by Japan Food Research Laboratories
- Test Report number : 1104933001-02. Bacteria : Staphylococcus aureus (NBRC 12732)
  - Test Report number : 11073649001-02. Virus : Bacteriophage (Phi X 174 NBRC 103405)
  - Test Report number : 1104937001-02. Mould : Cladosporium cladosporioides (NBRC 6348)
- All results are based on specific testing conditions. All tests are not demonstrated under actual usage situation.



\* Optional smartphone control.

1. 3 trillion is the simulated number of nanoe-g fine particles under the mentioned conditions. Actual measured nanoe-g fine particles at the centre of the room 13 m<sup>2</sup>: 100 k/cc calculated number of nanoe-g fine particles in the entire room assuming they are evenly distributed. // All results are based on specific testing conditions. // All tests are not demonstrated under actual usage situation.

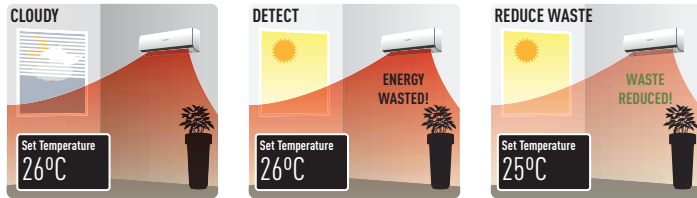
# SUNLIGHT DETECTION

ECONAVI detects changes in sunlight intensity in the room and judges whether it is sunny or cloudy/night and reduces energy consumption by adjusting cooling requirements under less sunny conditions. ECONAVI automatically adjusts cooling power to save energy efficiently, whilst still providing uninterrupted cooling comfort and convenience.



## NEW SUNLIGHT DETECTION (ON HEATING MODE)

ECONAVI detects changes in sunlight intensity in the room and judges whether it is sunny or cloudy/night. It reduces the waste of heating under more sunlight conditions. When weather changes from cloudy/night to sunny, ECONAVI detects more sunlight intensity and determines less heating power is required.



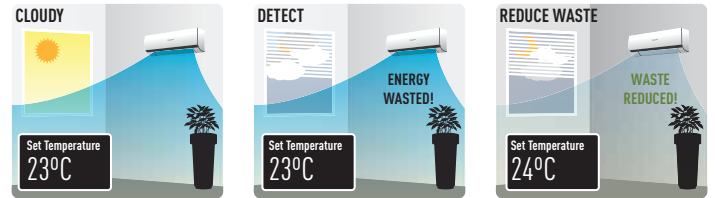
ECONAVI is switched on when it is Cloudy/Night.

ECONAVI detects less heating power is required.

Reduces heating power by an amount equivalent to decreasing the set temperature by 1 °C.

## NEW SUNLIGHT DETECTION (ON COOLING MODE)

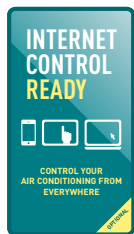
ECONAVI detects changes in sunlight intensity in the room and judges whether it is sunny or cloudy/night. It reduces waste energy by reducing cooling under less sunny conditions. When weather changes from sunny to cloudy/night, ECONAVI detects less sunlight intensity and determines less cooling power is required.



ECONAVI is switched on when it is Sunny.

ECONAVI detects less cooling power is required.

Reduces cooling power by an amount equivalent to increasing the set temperature by 1 °C.



## CONTROL YOUR AIR CONDITIONER WITH YOUR SMART DEVICE

Panasonic has always offered its customers the most efficient Heat Pumps and Air Conditioners. Now it has taken a step forward and presents a control solution taking advantage of the latest Cloud Technology to enable you to manage your climate system from anywhere in the world. Control your environment from your iPad, iPhone, any Android device or from a PC with Internet access using this add-on service. Offering the same functions as if you were at home: start/stop, Mode Operation, Set Temperature, Room Temperature etc.



Max Capacity			6,50 kW	7,70 kW
Indoor			CS-HE9NKE	CS-HE12NKE
Outdoor			CU-HE9NKE	CU-HE12NKE
Heating capacity	Nominal (Min - Max)	kW	3,20 (0,85 - 6,50)	4,20 (0,85 - 7,70)
Heating capacity at -7 °C	Nominal	kW	3,92	4,60
COP <sup>1)</sup>	Nominal (Min - Max)	Energy Saving	5,57 (5,15 - 3,82)	4,97 (5,15 - 3,41)
SCOP*	Nominal	Energy Saving	4,74 <b>A++</b>	4,62 <b>A++</b>
P Design at -10 °C			3,0	3,8
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,00)	3,50 (0,85 - 4,00)
EER <sup>1)</sup>	Nominal (Min - Max)	Energy Saving	5,49 (5,00 - 4,48)	4,22 (5,00 - 4,04)
Dimensions	Indoor / Outdoor (H x W x D)	mm	295 x 870 x 255 / 622 x 824 x 299	295 x 870 x 255 / 622 x 824 x 299
Sound pressure Level (Outdoor) <sup>2)</sup>	Cooling / Heating (Hi)	dB(A)	46 / 47	48 / 50
Operating range <sup>3)</sup>	Cooling Min / Max	°C	+16 / +43	+16 / +43
	Heating Min / Max	°C	-25 / +24	-25 / +24

\* Preliminary data. Specifications subject to change without notice.

Rating Conditions: Cooling: Indoor 27°C DB 19°C WB, Outdoor 35°C DB 24°C WB. Heating: Indoor 20°C DB, Outdoor 7°C DB 6°C WB. DB: Dry Bulb; WB: Wet Bulb.

1) EER and COP classification is at 230 V in accordance with EU directive 2003/31/EC. 2) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 3) Operation possible on heating mode up to -25 °C tested by SP. Performance guaranty on heating mode up to -20 °C.

The A Inverter system provides energy savings of up to 50%. You win and nature wins.

Nano-G utilises nanotechnology to purify the air in the room. It works effectively ensuring a cleaner living environment.

Econavi Sunlight Sensor detect and reduce waste by optimising air conditioner operation according to room conditions. With just one touch, you save energy efficiently.

With Super Quiet technology our devices are as quiet as a library.

The air conditioner works in heat pump mode with an outdoor temperature as low as -25 °C.

This innovative technology charges heat and uses it for heating. You can enjoy incredibly powerful, comfortable air conditioner heating.

The communication port provides easy connection and control of your heat pump to your home or building management system.

5 years warranty on compressor. For more information, contact your dealer.

# Panasonic®

To find out how Panasonic cares for you, log on to: [www.panasonic.eu](http://www.panasonic.eu)

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