

**Panasonic**

# New Deluxe Wall Mounted Heat Pump Series

# EXTERIOS



May 2013

# Panasonic Adding New Air Conditioner Lineup— Setting Another Mile Stone in the US Ductless Split History

Breakthrough technologies such as the inverter enable the highest energy efficiency\* in the industry. Thanks to this exceptional performance, you enjoy even more comfort.

## EXTERIOS



**Indoor Unit**  
CS-XE9PKUA / CS-XE12PKUA



**Wireless Remote  
Controller**





## No.1\* High Energy Efficiency

Breakthrough technologies, such as the inverter, enable the highest energy efficiency\* in the industry. Thanks to this exceptional performance, you will enjoy even more comfort.

\*CS/CU-XE9PKUA as of March 2013



## Powerful Heating at Low Ambient Operation

Heating is still possible even if the temperature drops as low as 0°F for reliable heating in even the harshest winter.



## Inverter Technology

Panasonic's inverter provides optimum power control and extremely efficient operation by changing the power supply frequency. The result is speedy, flexible operation using less electricity.

### Panasonic ductless split system designed to care for you

With more than 50 years of experience of exporting to more than 125 countries around the world, Panasonic is unquestionably one of the leaders in the air conditioning business. With more than 200 million compressors produced, you are assured the high quality of Panasonic's air conditioners.



## New added unique features

# Advanced Inverter Technology— Less Energy and More Comfort

**INVERTER**

The inverter constantly adjusts compressor rotation speed to provide optimum performance at all times. This extremely precise operation enables quick cooling or heating while reducing power consumption compared to conventional non-inverter units.

### Reduces Electricity Consumption

Panasonic Inverter air conditioners are designed to give you the exceptional energy savings performance while ensuring you stay comfortable at all times.

### Constant Comfort

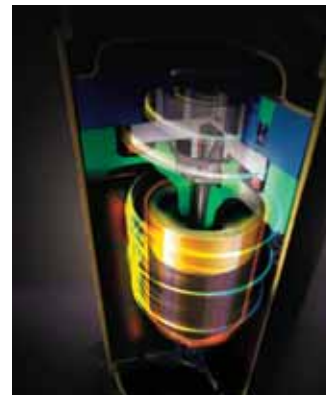
Precise temperature control with a wide power output range enables an inverter air conditioner to meet different room occupancy levels – thus ensuring constant comfort.

### Quick Cooling (Heating)

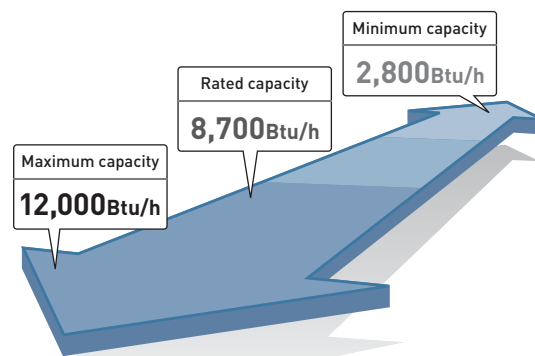
Panasonic Inverter air conditioners can operate with higher cooling power during the start up period to cool the room faster than non-Inverter models.

### Inverter Indoor Quiet Operation

Panasonic Inverter air conditioner's indoor operating noise has been reduced by 5dB as the Inverter constantly varies its output power to enable more precise temperature control.



### ■ Even Wider Output Power Range

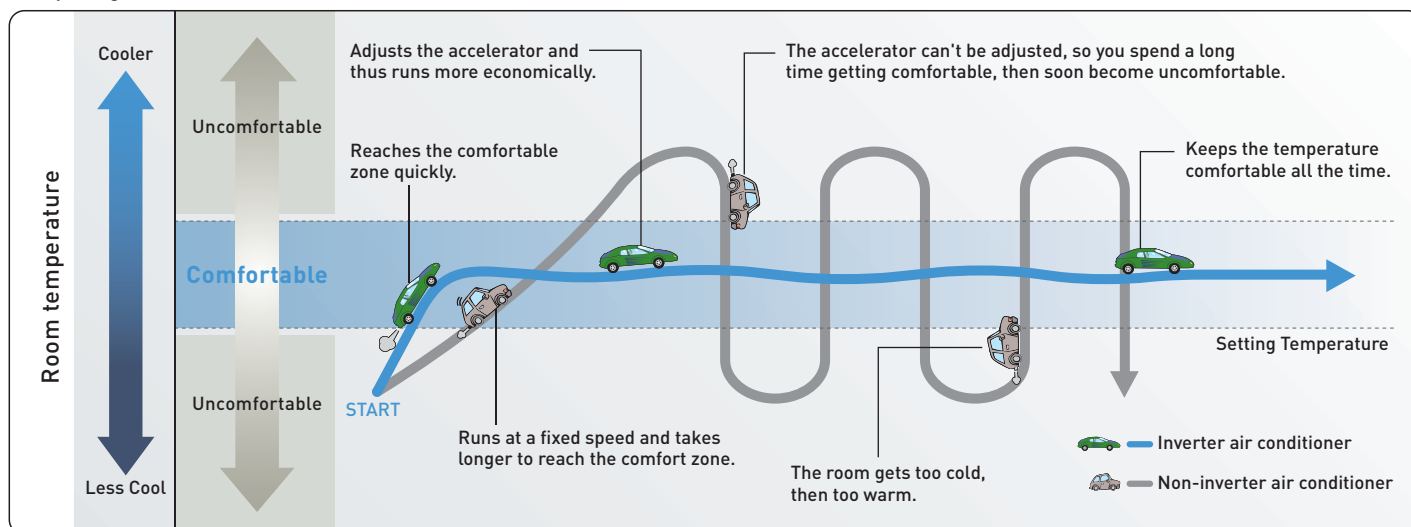


The graph shows XE9PKUA's wide power output range during cooling.

### ■ The Advantages of Inverter Control

Comparing inverter and non-inverter air conditioners to cars...

\*Image of output power fluctuation



# ECONAVI with Intelligent Eco Sensors



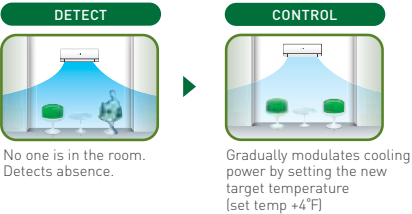
Panasonic has employed ECONAVI (Human Detection Technology) in its air conditioners. Since in 2007 and has perfected the feature since its launch. Panasonic is now introducing ECONAVI air conditioner to the US market.

ECONAVI sensors moderate the temperature. This smart technology monitors and senses when there are people in the room and determines how much activity is occurring, then automatically adjusts the temperature setting accordingly for optimum operation.

The area search mode uses sensors that can detect activity in the room and direct cooling to the occupied area. The low activity detection mode monitors the room, decreasing cooling when there is less movement, while the absence detection feature switches to a slightly less powerful cooling mode when there is no one in the room at all.

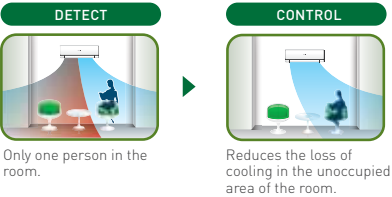
### Absence Detection

ECONAVI detects human absence from the room and raises the target temperature.



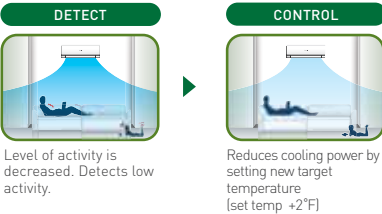
### Area Search

ECONAVI detects changes in human movements and direct the cooling to the occupied area of the room.



### Activity Detection

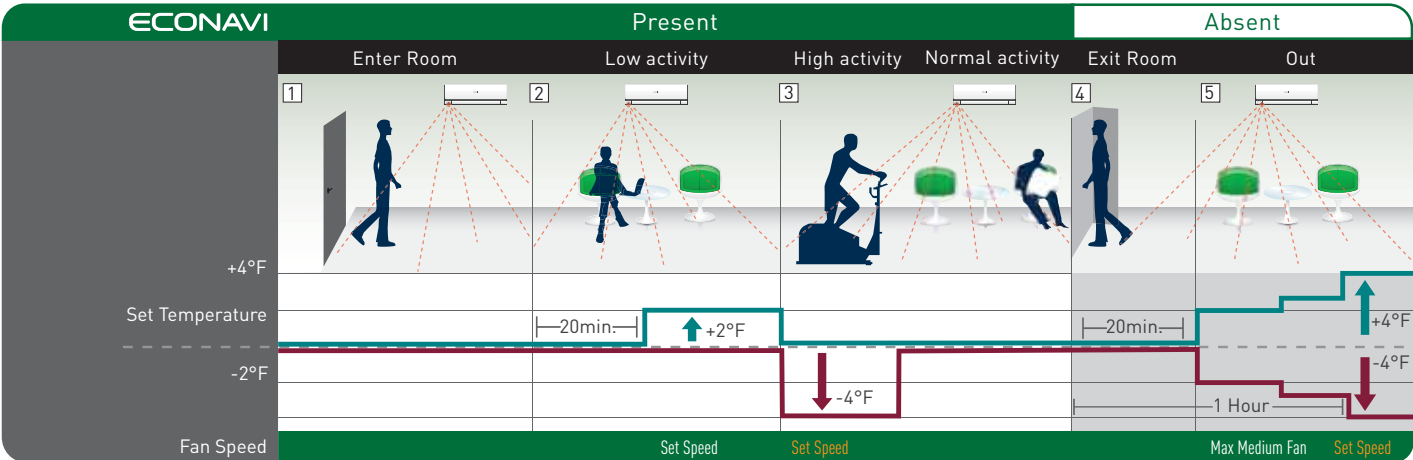
ECONAVI detects changes in activity levels and reduces the cooling power by adjusting set temperature.



ECONAVI in cooling mode: \*The target temperature set by ECONAVI will be restored automatically to the set temperature when the new condition is detected.



## How Does ECONAVI Human Activity Work?



Legend: - - - - Set Temperature    ———— Cooling Power    ———— Heating Power    Remark: Set temperature on remote control display remains unchanged.



# Wall-Mounted Heat Pumps

**XE9PKUA / XE12PKUA**

## EXTERIOS

**NEW**



**Indoor Unit**  
**CS-XE9PKUA / CS-XE12PKUA**



**Outdoor Unit**  
**CU-XE9PKUA / CU-XE12PKUA**



Wireless Remote Controller



Wired Remote Controller (CZ-RD516C) (Optional)



Wall Mounted Heat Pumps

Wall Mounted Heat Pumps						
Model No.	XE9PKUA			XE12PKUA		
	Unit Model No.	Indoor Unit CS-XE9PKUA	Outdoor Unit CU-XE9PKUA	Indoor Unit CS-XE12PKUA	Outdoor Unit CU-XE12PKUA	
<b>Performance &amp; Electrical Ratings</b>						
Capacity	Cooling	8,700(2,800-12,000)		11,500(2,800-14,000)		
	Heating	12,000(3,000-18,000) (10,600 at 17°F)		13,800(3,000-23,000) (13,500 at 17°F)		
Moisture Removal	High	1.3		2.3		
Dry Air Flow	High	405		530		
SEER	Cooling	28.5		25.5		
EER	Cooling	16.1		14.35		
HSPF	Heating	12.5		12.0		
Power Supply	V, Phase, Hz	230/208V, 1PH, 60Hz		230/208V, 1PH, 60Hz		
Running Amps	Cooling	2.5/2.8		3.8/4.2		
	Heating	4.0/4.5		5.2/5.8		
Power Input	Cooling	540(150-850)		800(150-1,050)		
	Heating	860(150-1,650)		1,150(150-2,100)		
Back-up Heater	kW	---		---		
Fuse or Circuit Breaker	Capacity	15		20		
<b>Features</b>						
Controls	Microprocessor			Microprocessor		
Low Ambient Control	Equipped			Equipped		
Wireless Remote Controller	Included			Included		
Wired Remote Controller (optional)	CZ-RD516C			CZ-RD516C		
Fan Speeds	5 Speeds + Auto			5 Speeds + Auto		
Timer	24hr Program			24hr Program		
Air Deflection	Horizontal	Manual			Manual	
	Vertical	Automatic			Automatic	
Air Filter	Washable + Anti Microbial Filter			Washable + Anti Microbial Filter		
Refrigerant	R-410A			R-410A		
Refrigerant control	Electric Expansion Valve			Electric Expansion Valve		
Operation Sound	In(Hi / Lo/ Q-Lo)	42 / 25 / 20		45 / 28 / 20		
	Outdoor(Hi)	48		49		
Refrigerant Piping	Type	Flare			Flare	
	Discharge	1/4"		1/4"		
	Suction	3/8"		1/2"		
Refrigerant Pipe Length	Ft.	Max. 66		Max. 66		
Elevation Difference*	Outdoor Above	Max. 49		Max. 49		
	Outdoor Below	Max. 49		Max. 49		
<b>Dimensions &amp; Weight</b>						
Height	inches	11-5/8"		11-5/8"		
Width	inches	34-9/32"		34-9/32"		
Depth	inches	10-1/16"		10-1/16"		
Net Weight	Lbs.	24		24		
		97		97		

\* This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the P.34 in the catalog for more detail.)