

ECONAVI ECONAVI with Intelligent Eco Sensors

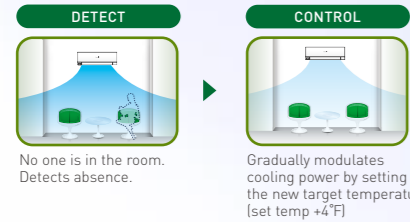
Panasonic has employed ECONAVI (Human Detection Technology) on its air conditioner beginning in 2007 and perfected the feature since its launch. Panasonic is now introducing ECONAVI air conditioner to the US market.

ECONAVI's 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 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.

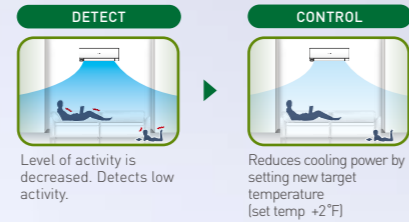
Absence Detection

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



Activity Detection

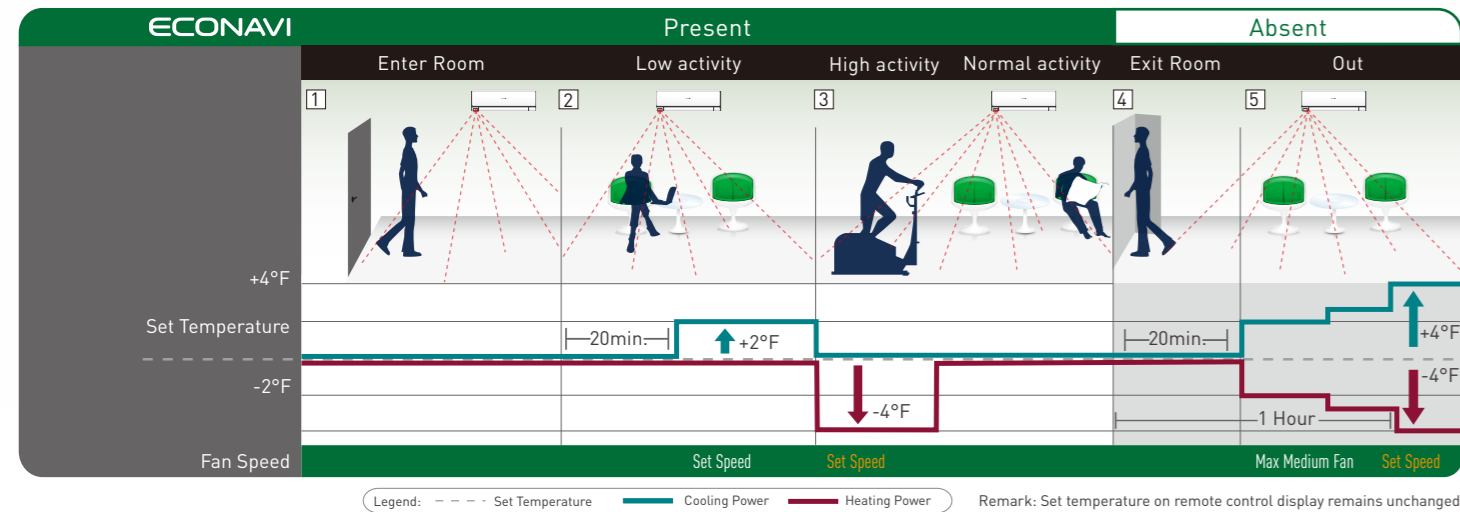
ECONAVI detects changes in activity levels and reduces the cooling power by adjusting set temperature.



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



HOW DOES ECONAVI HUMAN ACTIVITY WORK?

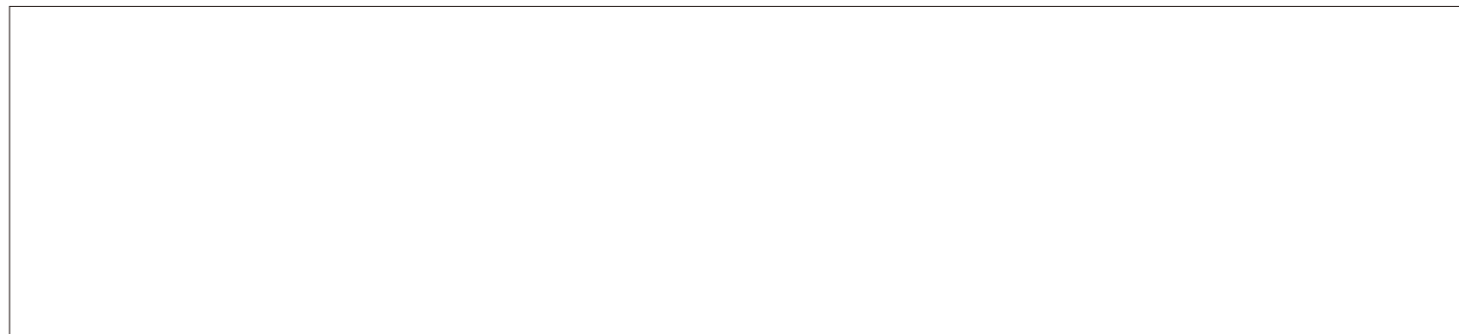


Use of the AHRI Certified™ mark indicates a manufacturer's participation in the certification program. For verification of certification for individual products, go to www.ahridirectory.org



Panasonic

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Because its products are subject to continuous improvements, Panasonic reserves the right to modify product design and specifications without notice and without incurring any obligations.
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Caution Related to Safety Do not add or replace refrigerant other than the specified type. Manufacturer is not responsible for the damage and deterioration in safety due to usage of other refrigerant.



Serving the US Ductless market since 1983

EXTERIOS

ROOM AIR CONDITIONING

SEER
28.5



Panasonic Adds a "NEW Air Conditioner" Line-up...
Setting Another Milestone in the History of Ductless Split.



Indoor Unit
CS-XE9PKUA / CS-XE12PKUA

Wireless Remote Controller



Room Freeze Protection



Outdoor Unit
CU-XE9PKUA
CU-XE12PKUA

SEER
28.5

No.1* High Energy Efficiency*

Breakthrough technology such as the inverter, enables the highest energy efficiency* in the industry. Thanks to this exceptional performance, you can enjoy more comfort. *CS/CU-XE9PKUA as of March 2013

LOW AMBIENT OPERATION

Powerful Heating at Low Ambient

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

INVERTER

Inverter Technology

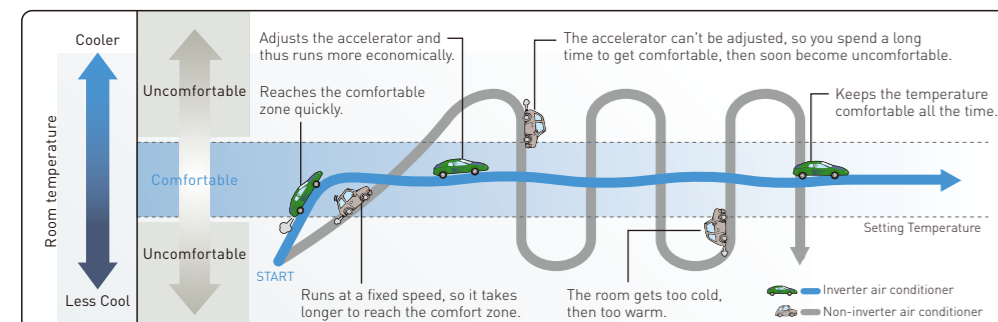
Panasonic's inverter technology provides optimum power control and extremely efficient operation by changing the power supply frequency. The result is speedy, flexible operation using less electricity.

Innovative Inverter Technology

The inverter constantly adjusts the compressor rotation speed to provide optimum performance at all times. After reaching the set temperature, an inverter air conditioner continues to operate with minimum power to avoid unnecessary electricity consumption. Conventional non-inverter air conditioners can only operate at a constant speed, switching the compressor ON and OFF to maintain the set temperature, which wastes electricity.

Advantages of Inverter Control

Comparing inverter and non-inverter air conditioners to cars.



*Image of output power fluctuation

Inverter Compressor

Panasonic's Inverter Compressor can achieve high efficiency under high load conditions. With accumulated production of 200 Million compressors, extremely high quality and reliability are proven.

High Efficiency Motor

for wide operating voltage.

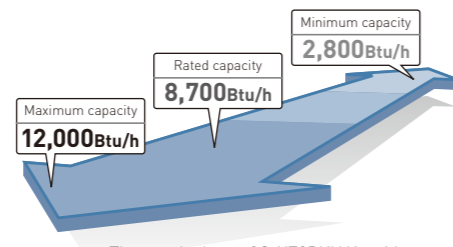
High Efficiency & High Reliability Material

for longer life span and to withstand high pressure.



Optimum Shape Muffler
for quiet operation.

Even Wider Output Power Range



Specifications

	XE9PKUA		XE12PKUA		
	Indoor Unit CS-XE9PKUA	Outdoor Unit CU-XE9PKUA	Indoor Unit CS-XE12PKUA	Outdoor Unit CU-XE12PKUA	
Performance & Electrical Ratings					
Capacity	Cooling Btu/h	8,700(2,800-12,000)		11,500(2,800-14,000)	
	Heating Btu/h	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 Pints/H	1.3	2.3		
Dry Air Flow	High CFM	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 A	2.5/2.8	3.8/4.2		
	Heating A	4.0/4.5	5.2/5.8		
Power Input	Cooling W	540(150-850)	800(150-1,050)		
	Heating W	860(150-1,650)	1,150(150-2,100)		
Back-up Heater		---	---		
Fuse or Circuit Breaker Capacity	A	15	20		
Features					
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] dB-A	42 / 25 / 20	45 / 28 / 20		
	Outdoor[Hi] dB-A	48	49		
Refrigerant Piping	Type	Flare		Flare	
	Discharge in.	1/4"		1/4"	
	Suction in.	3/8"		1/2"	
Refrigerant Pipe Length	Ft.	Max. 66		Max. 66	
	Outdoor Above Ft.	Max. 49		Max. 49	
	Outdoor Below Ft.	Max. 49		Max. 49	
Dimensions & Weight		Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
Height	in.	11-5/8"	27-3/8"	11-5/8"	27-3/8"
Width	in.	34-9/32"	34-15/32"	34-9/32"	34-15/32"
Depth	in.	10-1/16"	12-5/8"	10-1/16"	12-5/8"
Net Weight	Lbs.	24	97	24	97

* This is maximum elevation difference when the indoor unit is located above the outdoor unit.

Features



ECONAVI features intelligent Human Activity Sensor and new technologies that can detect human activity and absence, and optimize air conditioner operation according to room conditions.



Room Freeze Protection mode helps prevent plumbing damage due to sub-Freezing Temperature. This mode automatically turns on the compressor for heat pump operation if the room temperature falls to about 46°F.



*This function may not be performed if the unit is not powered, or if the unit is unable to operate such as in protection mode. Please consult with the HVAC installers.



Microprocessor control ensures that the temperature and humidity levels in the room are always comfortable.



Panasonic's infrared Remote Control with and easy-to-read LCD Display, gives the user the capability to adjust & set: temperature, sweep (louver control), fan speeds, timer and more, for complete automatic operation.



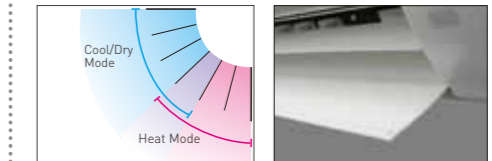
By coupling compressor and fan operation, intermittent operation can be precisely controlled according to room temperature, so that air is efficiently dehumidified.



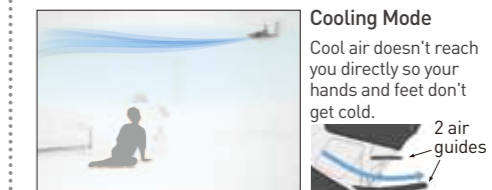
Convenient microprocessor control automatically adjusts fan speed to High, Medium or Low. According to room temperature to maintain a comfortable airflow throughout the room.



The air sweep function moves the louver up and down in the air outlet, directing air in a "sweeping" motion around the room and providing comfort in every corner.



2 air guides to improve the air flow direction



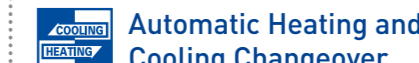
Cooling Mode
Cool air doesn't reach you directly so your hands and feet don't get cold.



Heating Mode
Warm feet and no direct breeze on your face mean even more comfort.



Louver can be manually set to the desired angle by remote control.



After setting the temperature and functions you desire, just relax. If the room temperature is higher than the set temperature, cooling operation begins. If the room temperature is lower than the set temperature, heating operation begins. During normal thermostat cycle operation, cooling and heating operations automatically change in accordance with set temperature, time and room temperature (Single Zone Heat Pump unit only).



The remote control unit allows you to set a wide variety of timer-based operations. Such functions include automatic ON/OFF with a timer setting, same time ON/OFF every day, ON timer, OFF timer and Combination timer.



This feature allows the system to automatically resume operation at its preset program, after power is restored from a power failure when the remote control is in the room.



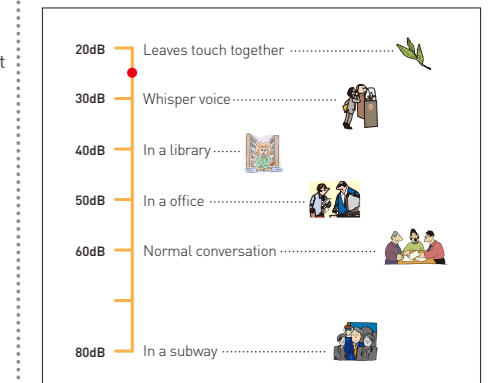
Right from the start, air is warm and comfortable. The Hot Start Heating System prevents any cold blasts at the beginning while the heat pump is warming up (Heat pump unit only).



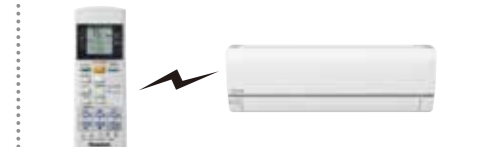
The circulation volume of the refrigerant is controlled by a pulse type electric control valve. In order to attain optimum efficiency, when the power is switched ON, the opening degree of the electric control valve is controlled between 90 and 480 step.



LOW, low fan speed for extra quiet operation.



Unit is equipped with Self-Diagnosing Function with remote controller. This makes it easier to diagnose malfunctions, reducing service labors.



Condensers can take a beating from exposure to salty air, rain and other corrosive factors. Panasonic has extended the life of its condensers with an original anti-rust coating.

