

Different from electric heaters and oil heaters A NEW CONCEPT IN COMFORT

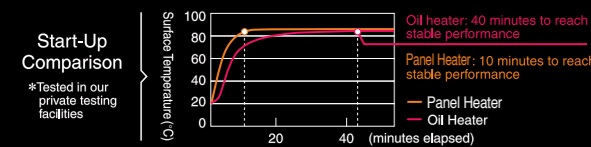
The Panel Heater's internal mica heater reaches full heating performance within 10 minutes of turning it on. The heater reaches approximately 240°C at that time, not only heating up much faster than oil heaters, but also is safer and more environmentally friendly.



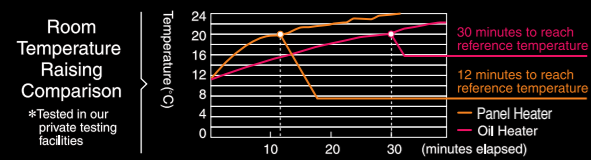
Rapid Heating

Warmth Without Waiting

The Panel Heater heats up much faster than oil heaters, reaching full performance within 10 minutes.



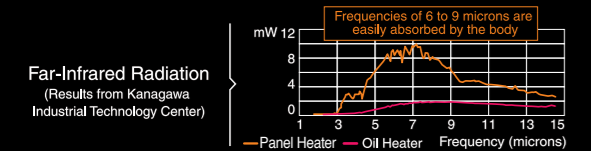
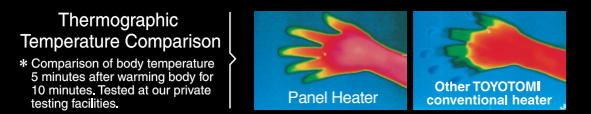
Rapidly raises room temperature, taking only 12 minutes to reach a reference office temperature of 20°C; 18 minutes faster than the oil heater which takes 30 minutes to do the same.



Heat Retention

With the same properties as sunlight Permeability of Far-Infrared Light

Air does not absorb heat well; far-infrared light directly permeates the body warming you to the core.



Safety

Considering the environment of your home and the globe

In a comparison of the surface temperature of the Panel Heater with the panel closed and an oil heater, the oil heater's surface is nearly completely hot as opposed to the Panel Heater, where the surface temperature is low except for the guard on the top, which reaches similar temperatures to the hottest parts of the oil heater.



The Panel Heaters do not require exhaust treatment like oil heaters and are environmentally friendly

ROHS Early support for the RoHS Directive*1 specified hazardous substance regulations

Compliant with the regulations for the six specified hazardous substances of the European Union RoHS Directive (Restriction of Hazardous Chemicals); lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ether (PBDE). Having passed the most strict rules in the world, you can take confidence in the environmental friendliness of our products.

*1: Made effective in 2006 by the E.U. prohibiting 6 specified hazardous substances contained in electric and electronic devices.

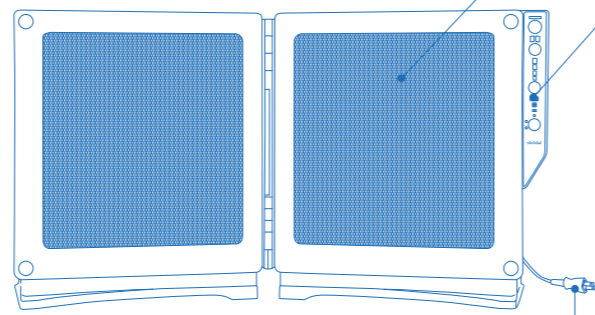
Functional

Easy to Carry, Simple to Store

Much lighter than oil heaters weighing in at only 7.3 kg, the Panel Heater folds up making it easy to carry and simple to store.

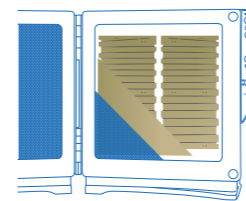


Secrets of the warmth and comfort



Incorporating a Mica Heater

Incorporates a mica heater in the heating panel. The heating elements are laid out throughout the entire surface of the board so that the whole of the panel emits heat.



Fully Functional, Refined Usability

Automatic Setting

Automatically maintains the comfortable temperature you set.

On/Off Timer Switch

Can be set to turn on or off for 1, 2, 4, or 8 hours. Convenient for warming a room ahead of time or for going to sleep.

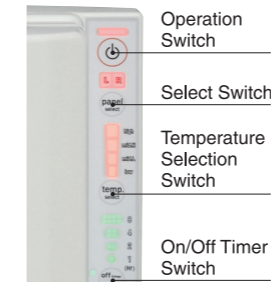
4-Level Temperature Selection Switch

Selects from four temperature settings: high, medium, low, and minimal.

Select Switch

Selects between both-sides, left-side only, and right-side only settings.

Controls



Dual-Layered Plug

Our innovative design helps prevent fire even in the case of a short caused by house dust in the socket.



- Made in Japan
- Environmentally Friendly RoHS Compliant

EPH-121

Optional Accessory Guard

Surface has high-class, velvety treatment.

EPHG-120



Model		EPH-121	
Approximate Heated Space	Insulation	Concrete Construction	Wooden Construction
	None	7m ²	5m ²
50mm		13m ²	8m ²
	Type	Far-infrared electric panel heater	
Power Source	AC220V / 230V, 50Hz		
Power Consumption		Both-panels	1200W
		One-panel	600W

Range Panel can be Opened	0 to 155°
Power Cord Length	2.0m
Safety Devices	Overheating prevention device, Tip-over switch, Product surface temperature detection sensor, Temperature fuse
Outer Dimensions	Opened: W920xL212xH507 (mm)
	Closed: W490xL322xH507 (mm)
Weight	7.3kg

*Specifications are subject to change without prior notice.

Basic calculation of required wattage per square meter for electric heater	Approximate Heating	Construction		Wooden Construction		Concrete Construction		
		Insulation	None	50mm	None	50mm	None	50mm
		W/m ²	244W	140W	174W	93W		

*These heating guidelines for electric stoves, electric fan-heaters, and oil heaters are from the unified standards of the Japan Electrical Manufacturer's Association. *Calculations assume a difference of 15°C or less between inside and outside the heated room, and a 50Hz power supply.



TOYOTOMI has received ISO 9001 certification for quality assurance and ISO 14001 certification for environmental management



- Ensure proper use by reading the users manual before use.
- Do not bend or set heavy objects upon the power cord.
- Devices consuming more than 1,000W must be directly connected to a socket regulated for 15A or more current. Failure to properly power the device may result in fire.
- Do not plug more than a single cord into a single outlet.



Renewed Warmth



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This winter, stay warm in three ways with the technology of EPH-121.

Wide Far-Infrared Heating

WIDE
We recommend people not satisfied with the warmth of electric heaters to give Panel Heater a try. Works well in even large living rooms and rooms with many people.



Cross Far-Infrared Heating

CROSS
We developed a heater that fits well in tight spaces where it can only be set in the corner such as kitchens and laundry rooms.

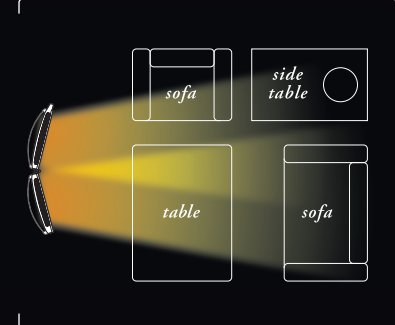


Natural Convection Heating

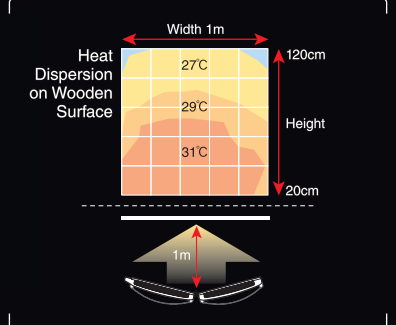
NATURAL
Closing the Panel Heater allows it to comfortably warm the room like a conventional oil heater. Better, it doesn't need to use a fan and thus doesn't stir up house dust or other particulate and runs much more quietly. The gentle heating it provides does not remove humidity from the air.



Example of Use ▶ Wide Far-Infrared Heating

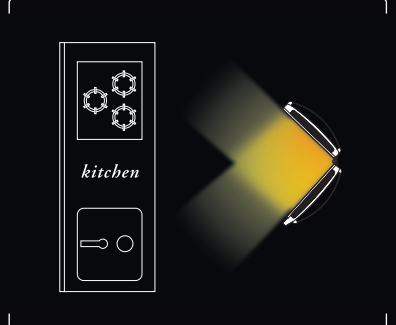


Heat Performance Graph ▶ Heat Dispersion 1m Away

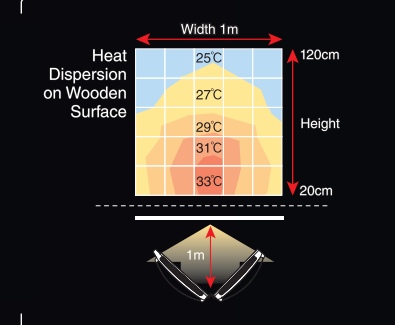


Heat dispersion measured on a wooden surface after two hours of operation with the wooden panel (1220×1220mm) set 1m from the product. *Tested in our private testing facilities.

Example of Use ▶ Cross Far-Infrared Heating

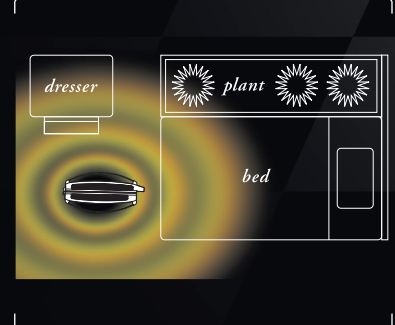


Heat Performance Graph ▶ Heat Dispersion 1m Away



Heat dispersion measured on a wooden surface after two hours of operation with the wooden panel (1220×1220mm) set 1m from the product. *Tested in our private testing facilities.

Example of Use ▶ Natural Convection Heating



Fully opens into wide panel heating to warm wider spaces

Open half way to increase the heating effectiveness as far-infrared heat meets in the middle.
Concentrated spot heating

Fully close the Panel Heater to warm an entire room through environmental effects as warm air rises from within the panel.