

User Manual

Keep this User Manual in a safe place as it is also used as the Warranty Certificate.

[www.hkmedical.co.kr](http://www.hkmedical.co.kr)

# VARONA

## Electric Heating Pad for Sofa



### For customers who purchase this sofa heating pad,

Thank you very much for your purchasing our product. Our company specializes in the development, production, and sale of high-quality medical products based on our advanced bioengineering technology.

Since our company was established in 1993, it formally obtained the medical instrument manufacturing business license (No. 579) from the Ministry of Food and Drug Safety. The company has expanded its range of medical products to manufacture, and supply to hospitals and households home and abroad, a variety of medical instruments including ultrasonic therapy systems, obesity management systems, and medical substance generators.

Our in-house standards which work on the principle of "Quality First" successfully met the requirements of ISO 9001 and ISO 14001 which enabled us to receive the certificates from the Korea Productivity Center. The company still produces 80% of its products and components at its factory under its strict quality control system in an effort to maintain its specified quality level.

#### Aiming for 100% Customer Satisfaction

We promise to do our utmost diligently and sincerely whether we are working at the factory or meeting customers in the field with a mindset that we should place no less value on public health and the development of the domestic medical industry than on the profit making we need to pursue as an enterprise.



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**Electric HEATING PAD**  
HH07692-5003E

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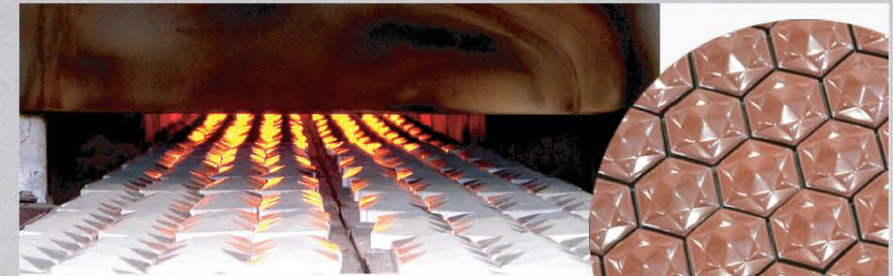




## History

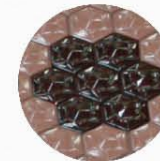
- 1993. 01 Established the Company
- 1996. 08 Obtained the medical products manufacturing business license (No. 579) from the Ministry of Food and Drug Safety (MFDS)
- 1997. 08 Was designed as a company of "sanitary processing" guaranteed by the FITI Testing and Research Institute.
- 1998. 09 Earned the ISO 9001 certificate from the Korea Productivity Center.
- 1999. 10 Earned the ISO 14001 certificate from the Korea Productivity Center.
- 2001. 03 Became a member of the Korea International Trade Association (KITA)
- 2001. 04 Received the Electric Appliance Safety Certificate from the Electromagnetic Research Center.
- 2001. 10 Obtained a medical product manufacture license from the MFDS (for Hankwang Myeongpum, No. 01-541)
- 2002. 03 Obtained a medical product manufacture license from the MFDS (for Combi 9000, No. 02-202)
- 2003. 03 Obtained a medical product manufacture license from the MFDS (for Body Elance, HK-2003)
- 2003. 04 Became a member company of the Korea Far Infrared Association (KFIA)
- 2003. 10 Underwent anion and far infrared tests on HK's materials by the KFIA.
- 2004. 01 Entered into a University-Company Cooperative Partnership with Dongwon University.
- 2004. 05 Completed and moved into a new factory in Gyeonggi Province.
- 2005. 03 Received a patent for a mat mechanism from the Korea Intellectual Property Office (KIPO).
- 2005. 04 Earned the EC mark for the first time in the industry.
- 2005. 05 Won the Achievement Award at the Environment-Friendly Management Awards.
- 2005. 05 Was approved as a New Technology Venture Business by the Small and Medium Business Administration (SMBA).
- 2005. 08 Received the approval for a medical substance generator (KH-3500) designed to produce nano hydrogen-reducing water from the MFDS for the first time in Korea.
- 2005. 09 Completed the construction of the largest wellness care center in Korea for its customers.
- 2005. 12 Concluded an advertisement contract with SBS TV (for HK Charcoal Kiln-style Sauna)
- 2006. 08 Received an approval for its R&D Institute from the Korea Industrial Technology Association.
- 2007. 01 Received the INNO BIZ certificate from the SMBA.
- 2008. 01 Obtained the GMP certificate from the MFDS.
- 2008. 03 Turned its ownership structure into a corporation "Hankwang Medical Co., Ltd."
- 2008. 08 Filed the trademark "Varona."
- 2010. 06 Was appointed as a member company of the steering committee of the Korea Electric Mat Conference.
- 2010. 07 Applied for a patent for the method of producing silicone for heating wire.
- 2010. 09 Chairman Han Jong-soo won a commendation from Governor of Gyeonggi Province.
- 2014. 05 Mr. Park, the general manager of R&D received award from small and middle business administration.  
HK maximized the Value of brand being selected global guaranteed brand by Kotra. Also We acquire inno-biz certificate which represent innovative technology of company from Small & Medium Business Administration.
- 2014. 06 HK's CEO visited Mexico where HK's branch has expanded from 1 to 11 for 2 years.

## About Sofa Heating Pad



### The result of nano science and Hiranya technology NANO CERAMIC SUPER ENERGY

Cheonkwang Seok used in our Varona sofa heating pad is made of ceramic which is produced from an assortment of rare mineral ores (including kiyoseki, biolite, tourmaline, Geumgangyakkdol, and igneous rock, etc) which are crushed and ground into nano-size particles and plasticized in a kiln of 1,600oC. 20-years-long trials and errors have led us to devise a pattern which combines Hiranya patterns with pyramid shapes, designed to emit a by far greater amount of far infrared ray.



PH Nano technology +  
thermal energy from ceramic



Hexagonal heat-accumulating  
ceramic

### What is PHE Nano Heat-Accumulating Ceramic?



Pyramid energy  
(P)



Hiranya's hexagonal energy  
(H)



Heat-accumulating ceramic  
(E)

1. This PHE heat-accumulating ceramic is the result of HK's cutting-edge technology (NT: nano-technology) that can convert the space energy of the pyramid and the energy generated from the sectional triangle of the pyramid(P) into Hiranya's hexagonal energy(H) with the view of maximizing far infrared effects through the embodiment of color changes in connection with temperature changes.
2. Emission of far infrared rays
3. Emission of anions



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# VARONA

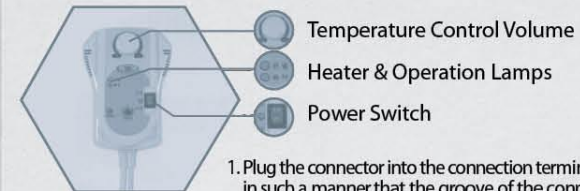
## Electric Heating Pad for Sofa

### Product Specifications and How to Use

Item	Description
Product name	Electric Heating Pad for Sofa
Safety certification number	HH07692-5003E
Model name	HK-500
Electrical rating	AC 220V
Rated frequency	60Hz
Power consumption	100W
Safety protections	1. Automatic control circuit for supply of alternating current
	2. Over-temperature prevention circuit
	3. Thermostat short circuit
	4. High-voltage prevention circuit
	5. Overcurrent prevention circuit
Country	Republic of Korea
Manufacturer	HK Medical Co., Ltd

### How to use

#### Heating Pad Control



1. Plug the connector into the connection terminal of the main body of the product in such a manner that the groove of the connector slips into place.
2. Connect the power plug with a mains outlet. This product operates only with 220V.
3. Push the Power Button to turn the product on. The Heater and Operation lamps come on.
4. Turn the Temperature Control Volume to choose your desired temperature. The Operation lamp goes off automatically when a preset temperature is reached.
5. Turn off power when the use is over. Pull off the power plug when you leave your house.

### Safety Precautions and Troubleshooting



1. Do not prick or scratch the product with such a sharp object as a knife, nail, or scissors.
2. Disconnect the power plug when you go out or do not use the product for an extended period of time.
3. Pay attention not to spill water or liquid over the main body or the control.
4. Do not give strong impacts to or put heavy objects on the main body or the control.
5. Do not jump or roll over on the main body.

### Troubleshooting

Symptoms	Description	Causes
Temperature does not rise	Connector is not linked properly.	Disconnect connector and then connect it again. Check if control connector and main body terminal have properly been engaged.
	Power is turned off.	Check for power switch.
	Operation lamp goes off.	Turn temperature control volume to High.
Control seems to have a problem	Power cord is disconnected.	Plug in power cord correctly.
	Power is off.	Turn on power.
	Connection is not made correctly between main body and connector terminal.	Plug in connector correctly again when Operation lamp is not lit.
Temperature drops suddenly while product operates at high temperature	Connector is not linked properly.	Disconnect connector and then connect it again.
	Power is turned off.	Check for power switch again.
	Power cord is disconnected.	Plug in power cord properly.
	Temperature is lowered.	Set temperature control volume again.



## Quality Warranty

Product Name : Varona Sofa Heating Pad

The above-mentioned product is warranted for its quality as described below:

Warranty period	One (1) year from the date of purchase
Date of purchase	YY MM DD
Customer	Address:
	Name:
	Tel. No.:
Store	Name of store:
	Name of director:
	Address
	Tel. No.:

1. This product undergoes our strict quality inspection procedure before it is shipped out.
2. This product is subject to free repair service for one year from the date of purchase according to the Consumer Protection Act if the defect is determined to result from normal use.
3. Contact the store or our A/S Center (1577-6778) or our Homepage (<http://www.hkmedical.co.kr>) if you have any problems with this product.
4. Services will be charged even during the warranty period, upon occurrence of any of the following events:
  - A. When the defect results from misuse or abuse or in connection with user's careless or negligent act.
  - B. When the defect results from willful alteration or repair by an authorized person.
  - C. When the product becomes defective or damaged as a result of fall.
  - D. When this warranty is not presented.
  - E. When this warranty does not contain the date of purchase and the seal and signature of the store where the product is purchased.
  - F. When the serial number marked on the inspection sticker has been damaged.

 **HK Co., Ltd.**

**Head office and factory :**  
669-2, Shinwol-ri, Chowol-eup, Gwangju-si,  
Gyeonggi-do, Korea  
**Tel. No. :** 031-798-1577  
**Fax. No. :** 031-798-1588  
**Contact Number for after-service :**  
1577- 6778

The above-mentioned warranty service is subject to the Ministry of Finance and Economy's Notification No. 2000-12.  
**Contact our Service Center if you have any problem with your product and need any repair service, and you will get quick, accurate, and kind service at any time.**