



# **SAFIT** SMART HEATING VEST

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# 1 PRODUCT MAIN FUNCTION

## ○ SAFIT SMART HEATING VEST WITH HEATING PAD USING BLUETOOTH FUNCTION

### SMART HEATING VEST

- \* Functional fashion-fusion product featuring a radiant heat-generating carbon surface heating pad
- \* Temperature control system using stable components and Bluetooth connectivity, with washable heating and temperature regulation functionality
- \* Woven pressed fabric filled with DOWN-LIKE WELLON, an eco-friendly insulating material
- \* Heating pad is detachable for water washing; temperature can be adjusted via a smartphone application
- \* For industrial safety, the wearer's location can be tracked through a Bluetooth-linked application in case of emergency on-site or outdoors

FRONT



BACK



# 1 | PRODUCT MAIN FUNCTION

## ○ DETAILS



[Heating Pad + Controller + Supplementary Battery]



[Back Heating Pad]



[Supplementary Battery]



[Temperature Control Controller]

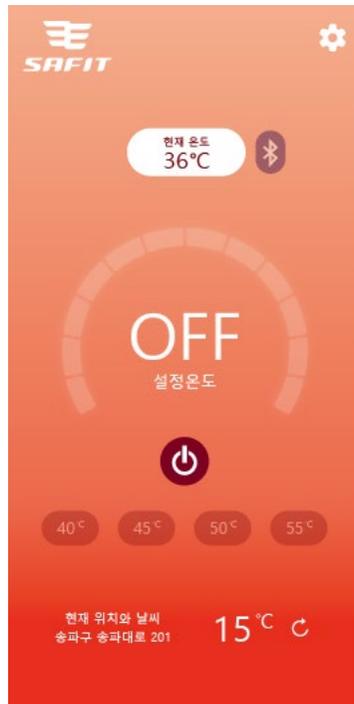
# 1 | PRODUCT MAIN FUNCTION

## ○ SAFIT SMART HEATING VEST APPLICATION



Application for Korea

-> Can be produced in other languages



[Smart App]

# 2 CORE TECHNOLOGY CAPABILITIES

## CORE RETENTION TECHNOLOGY



Heating Pad Carbon Fiber Felt Type	USB Module Temperature Control with Bluetooth Smartphone	IoT-based temperature control solution optimized for smart clothing
Authentication of Electromagnetic	KC Safety Confirmation	Wireless communication authentication
<b>GENERATION</b>	<b>GEN 3-4</b>	<b>GEN 1-2</b>
BATTERY CAPACITY	10,000mah	2,500mah
VOLTAGE	5v	7.4v
TYPE OF BATTERY	Lithium-polymer	Lithium-ion
COMPATIBILITY	Rechargeable smartphone	Dedicated
TIME OF USE (40°C CRITERIA)	High (LV. 4) - 10 hours, Middle (LV. 2~3) - 15 hours, Low (LV. 1) - 18 hours	6 hours

### Technology

Smart Temperature	Radioactivity -Free	No Risk of Electric Shock	Shorten Heating Time	Supplementary Battery	Extension of Time	Lightness	Washable	Recycle Material

# 2 CORE TECHNOLOGY CAPABILITIES

## INTELLECTUAL PROPERTY RIGHTS

### Patent/Program Application/Registration Performance

NO.	Patent/Program Name	Country Name	Filing / Registration Date	Application / Patent Number	Note
1	Smart Heating Vest Registration of A Patent	Republic of Korea	2022.1.4	No. 10-2349535	Registration
2	IOT-based Smart Heating Wear Patent Application	Republic of Korea	2020.12.15	10-2020-0175860	Filing
3	IOT-based Smart Heating Wear PCT Application	Overseas	2020.12.15	PCT/KR2020/018635	Filing
4	Registration of A Utility Model For Heating Vest	Republic of Korea	2019.8.21	20-2019-0003461	Registration
5	Smart Heating Vest Design Registration	Republic of Korea	2021.4.21	No. 30-1106329	Registration
6	Heating Vest Design Registration	Republic of Korea	2019.10.31	No. 30-1030929	Registration
7	Smart Heating Vest Design Registration Application	Republic of Korea	2020.12.16	30-2020-0062693	Filing

### Award Performance Related To Design

Year	Award Details	Host Institution	Note
2021	Certificate of Good Design Selection 2021(Good Design Korea, GD)	Ministry of Trade, Industry and Energy	Korea Institute of Design Promotion

