



# WEARABLE TECHNOLOGY FOR THERMAL COMFORT AND ENHANCED PRODUCTIVITY





Heat affects more people than any other weather-related event and global warming and climate change are making these extreme events even more dangerous. We are not just speaking of adventure sports or tourism. A study conducted across 70,000 factories in India, saw a 4% drop in productivity, for every degree increase in temperature above 27 °C!

The body's normal core temperature is 37-38 °C. When overheated, the body's cooling down mechanism takes up more energy and the rest of the body has to be

Our mission is to provide cost effective, practical solutions for this gradually overheating world, that are energy efficient and are low in their own carbon footprint.

**Introducing brrf PLUSS® fan cooled jackets with latest PCM\* technology that keeps the body temperature at +25 °C.**

**USEFUL IN:** • Sports • Adventure sports • Industries • Construction sites  
• All high temperature working environments



Lowering temperature



8 hours



Stylish



Safe



Economical



Easy to use

\*PCM: Phase Change Materials

**PLUSSTM** | TECHNOLOGY FOR A BETTER WORLD

Founded in 1994, Pluss Advanced Technologies started with R&D and manufacturing of specialized polymers. In 2007 Pluss commenced development in the field of Phase Change Materials (PCMs) technology. In 2012, the company raised equity funds from Tata Capital Innovations Funds and expanded R&D, developed and commercialized first of its kind temperature control solutions using proprietary materials, addressed unmet need of temperature control across refrigeration, cold storage, cold-chain logistics, HVAC, and healthcare sectors. The company today has a global presence with its own subsidiary in Netherlands. Pluss has received several awards and recognitions, including the CII Innovation award twice, in 2014 and 2017. It has also received the Massachusetts Institute of Technology's Innovators under 35 awards, in 2016 and 2017. Since 2021, Pluss is a subsidiary of Carborundum Universal Limited (CUMI), which is a Murugappa Group company.

## PRODUCTS



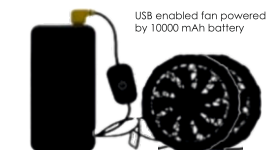
### VESTS

This Vest can take up to 4 PCM pouches. Easy to assemble and use, this promises to keep the temperature of your body lower by up to 20 degrees from the ambient.



Colour	Size	Number of pouches	Designed for temperature	Avg. Time duration**
White	Open	4	Above 40 °C	8 hours
Blue	Open	4	Above 40 °C	8 hours
Black	S/M	1	30 to 40 °C	8 hours
Black	L/XL	1	30 to 40 °C	8 hours

\*\*The time duration depends on fan speed, ambient temperature & usage.



### FAN COOLED JACKETS

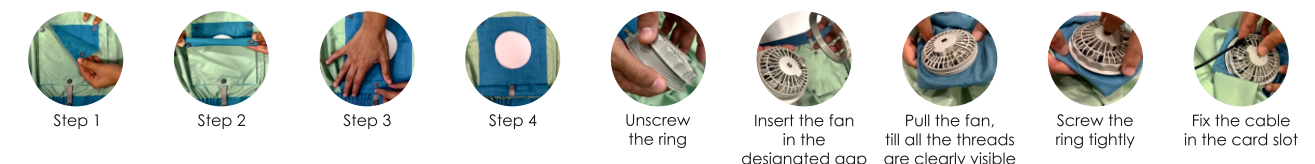
This cool jacket incorporates a battery operated fan, to keep your body temperature down.

Easy to assemble and easy to use, it is the coolest solution to the heat problem.

Colour	Size	Fan battery	Avg. Time duration**
Orange	M/L/XL	12 Volt	8 hours
Green	M/L/XL	12 Volt	8 hours
Grey & Blue	M/L/XL	5 Volt	8 hours

\*\*The time duration depends on fan speed, ambient temperature & usage.

### INSTALLATION OF FAN AND BATTERY DETAILS



Product colours shown in the images may vary slightly from actual.

## Members



**National Centre of Cold Chain Development,**  
NCCD is an autonomous body established by the Government of India with an agenda to positively impact and promote the development of the cold-chain sector in the country.



**India Energy Storage Alliance,**  
IESA was launched in 2012 to help technology and system integration companies involved in energy storage and microgrids to understand and capture the opportunities in the growing markets.



**Clean Energy Access Network,**  
is an all India representative organization launched in 2014 with a clear mandate to support, unify and grow the decentralized clean energy sector in India.



**Reichs-Ausschuss für Lieferbedingungen (RAL),**  
Several active PCM enterprises formed the Quality Association PCM in 2004 to develop proper quality assurance procedures.

## SUSTAINABLE DEVELOPMENT GOALS

### ACHIEVED USING THIS TECHNOLOGY



Good health and well-being



Industry, innovation and infrastructure



Reduced inequalities

## Recognition for PLUSS®



**GITA- Global Innovation & Technology Alliance - 2022**



**FICCI- DST Lockheed Martin Award - 2015**



**WWF- Climate & Energy - 2021**



**TCL- Supply Chain Innovation Award for Pharmaceuticals - 2018**



**DST, GI- Department of Science & Technology, Government of India - 2020 & 2017**



**BIRAC- Sparsh Grant - 2022**



**UNIDO- FLCTD Innovation Challenge - 2018 & 2022**



**MIT- Innovators under 35 India Award - 2016 & 2017**



Scan the QR code to visit our website

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