



TETHYS

Bringing thermal comfort to people

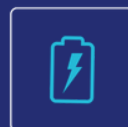
- TETHYS -

OPTIMIZING THERMAL COMFORT

IN EXTREME ENVIRONMENTS



Mission : Improve safety, comfort and human performance in the most demanding industrial environments through active, precise and reliable thermal control technology.



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METALLURGY: AN EXTREME ENVIRONMENT

Metallurgy operators work close to heat sources that can exceed 60°C, in enclosed workshops, under heavy PPE, with demanding postures and high exposure to radiant heat.

Passive solutions (gel, evaporation) fail quickly: too short-lived, ineffective in humid conditions, incompatible with PPE.

Tempesta delivers a direct response to these constraints: active, stable and continuous thermal control, usable on the job and without infrastructure.

Key benefits

- **+15% productivity**
- **- 20% risk of heat-related accidents**
- **-25% operational costs (breaks, disruption, fatigue)**
- **Estimated ROI: ~€6k / employee / year**

Performance

- Operating range – 20°C to +60°C
- Thermal absorption up to 50 W
- Battery life 3h30 to 8h (double set available)
- Total weight < 1.6 kg

Field results

Trials conducted at **ArcelorMittal**, **Ferroglobe**, **Framatome** and **ASSA ABLOY** show:

- Immediate sensation of freshness, even at 60°C
- Reduced fatigue and fewer micro-breaks
- Better activity continuity at end of shift
- Adoption confirmed, subject to ergonomic improvements

New-generation Tempesta

1. Redesigned hot/cold system, controlled via a premium button positioned on the hip
2. Integrated lateral ventilation, enabling active extraction of hot air under PPE
3. Redesigned multi-size architecture, with improved weight distribution and stability
4. Faster donning, with a simplified structure that cuts preparation time
5. +69% thermal diffusion surface, thanks to an internal aluminum plate covering back and chest

TETHYS

- ARCELORMITTAL X TETHYS -

HSE MANAGER

"THE SYSTEM ITSELF WAS FOUND TO BE EFFECTIVE AND
PROMISING, EVEN IN ENVIRONMENTS WHERE THE
TEMPERATURE APPROACHED 60°C."



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