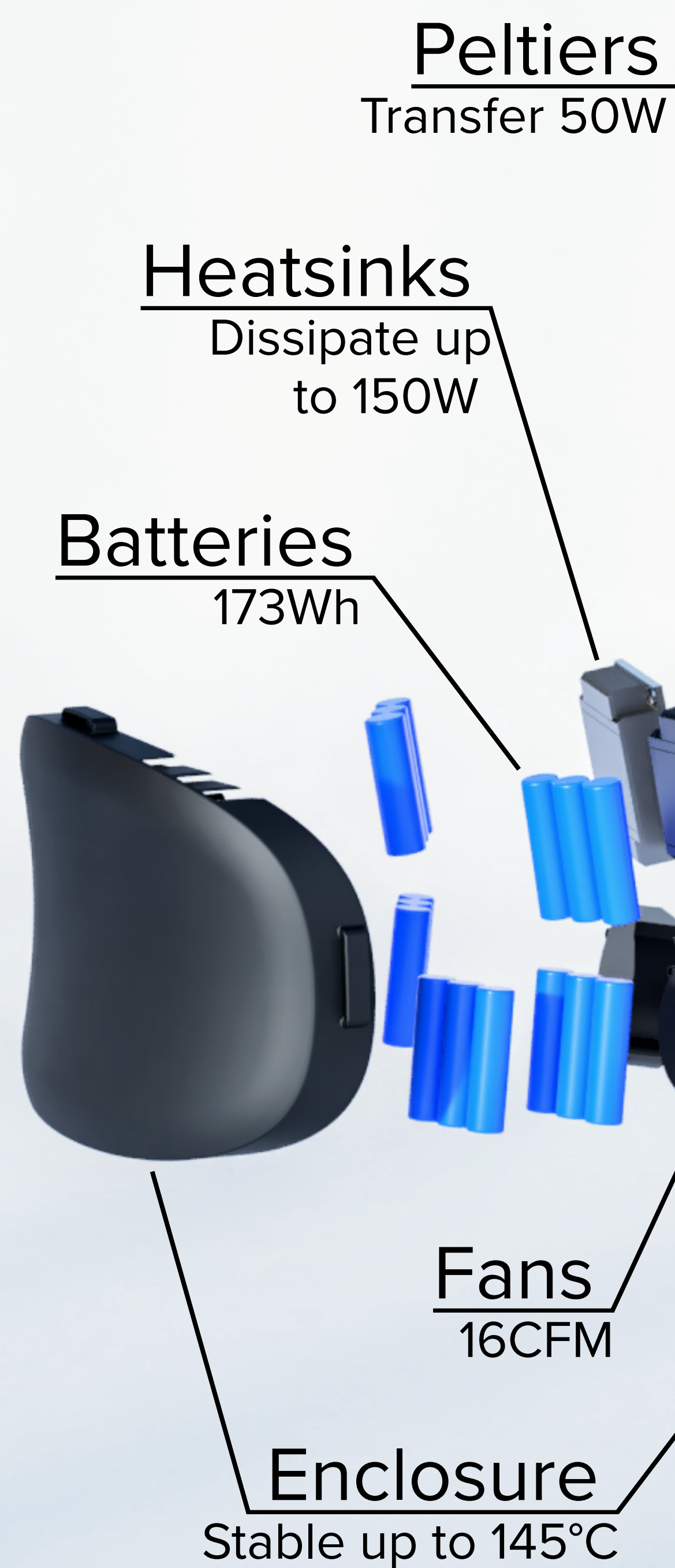
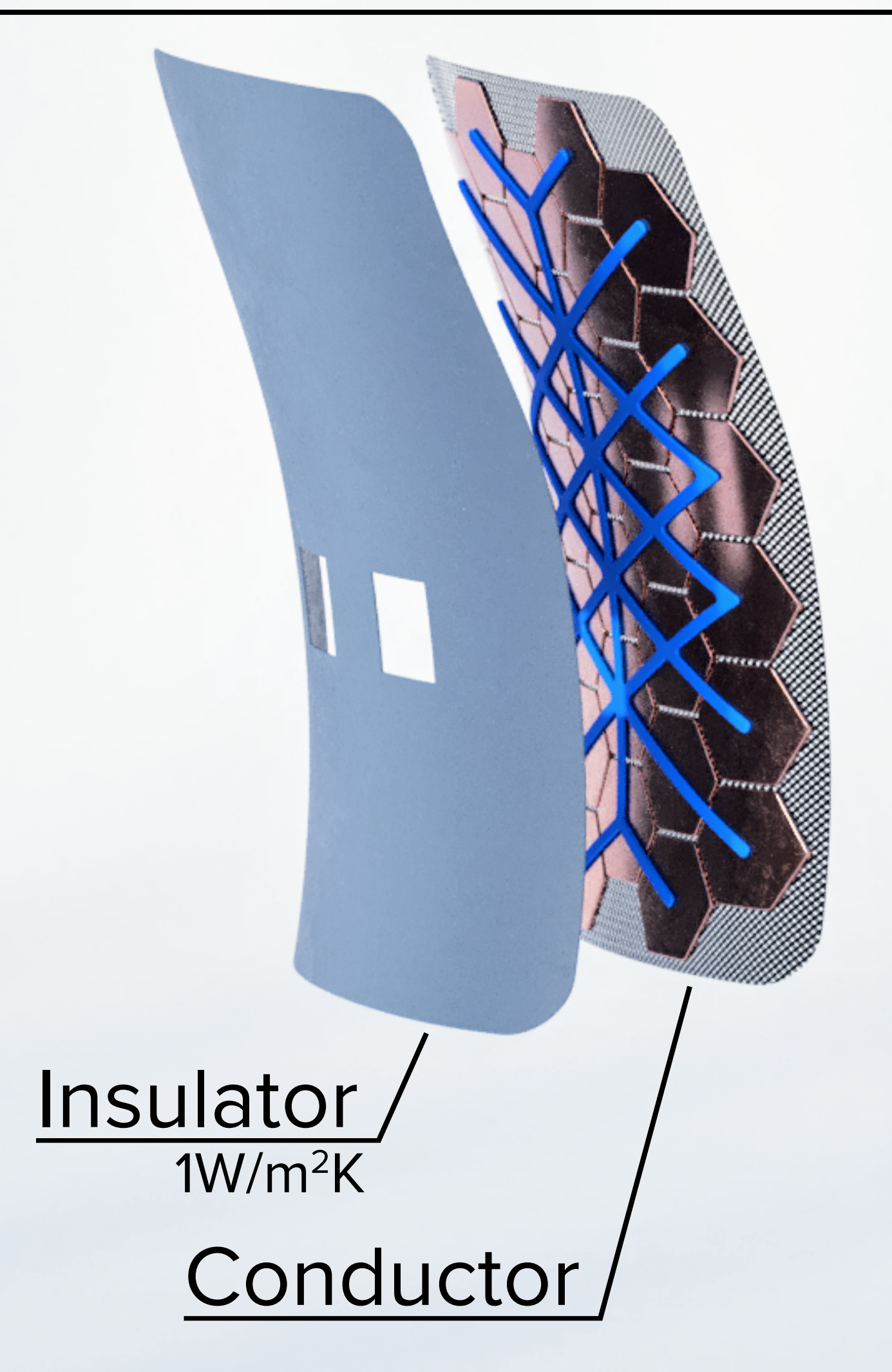




Background

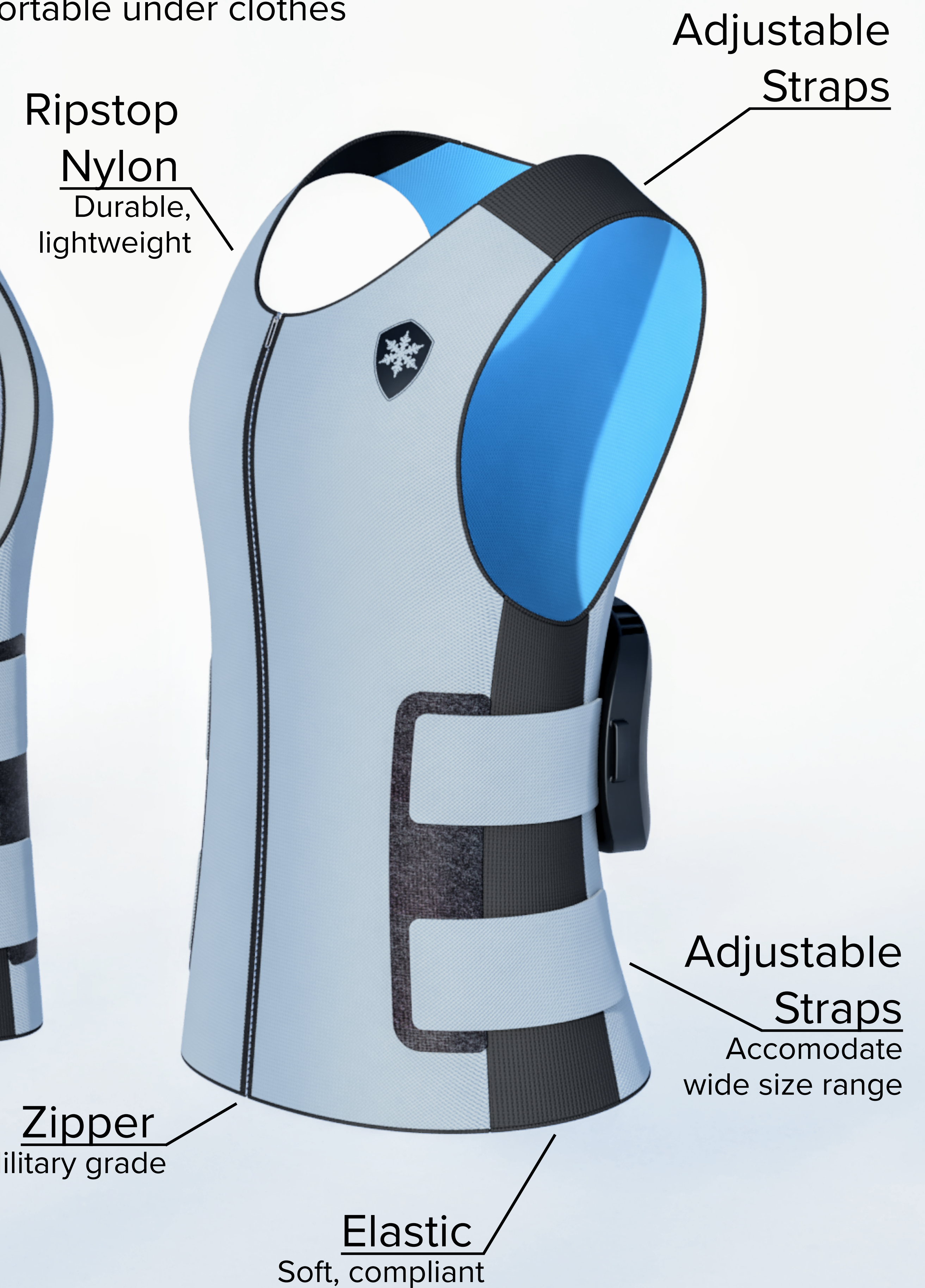
- Heatwaves threaten the productivity, health, and lives of workers worldwide
- This crisis will only worsen as climate change continues
- Many solutions don't work in high humidity, which is particularly dangerous

Future Iteration



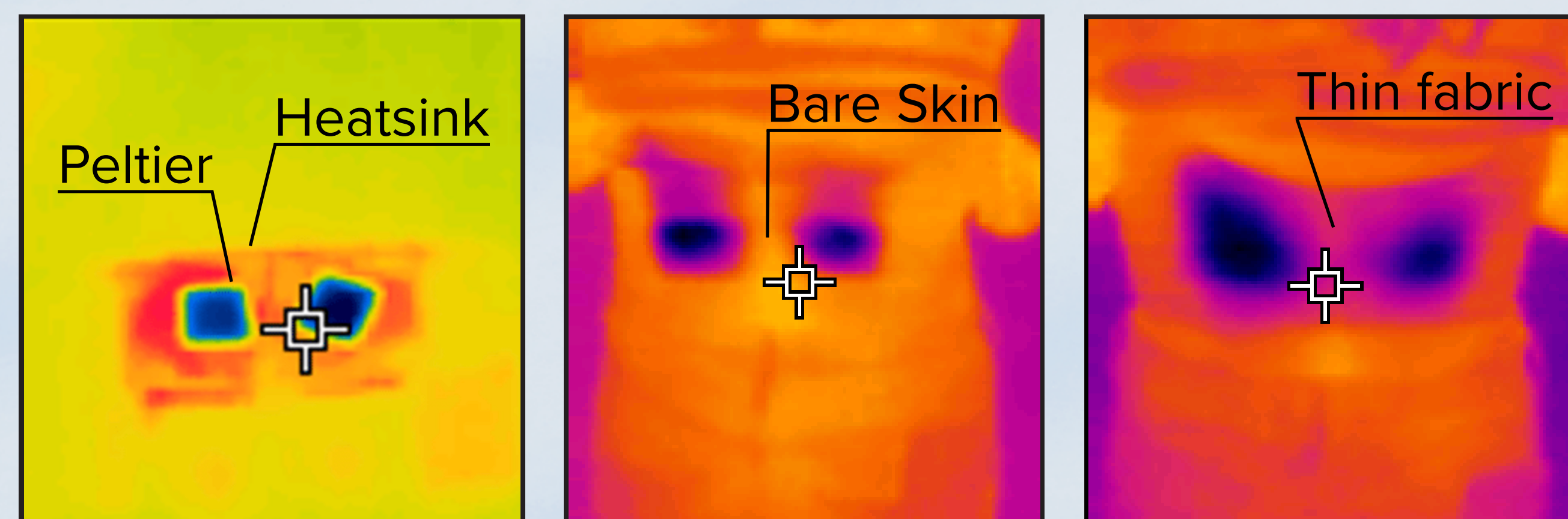
Design Requirements

- Effectively cools user, even in high humidity
- Adjustable to a wide range of body types
- Safe, easy to use, lightweight, and comfortable under clothes
- Lasts at least two hours

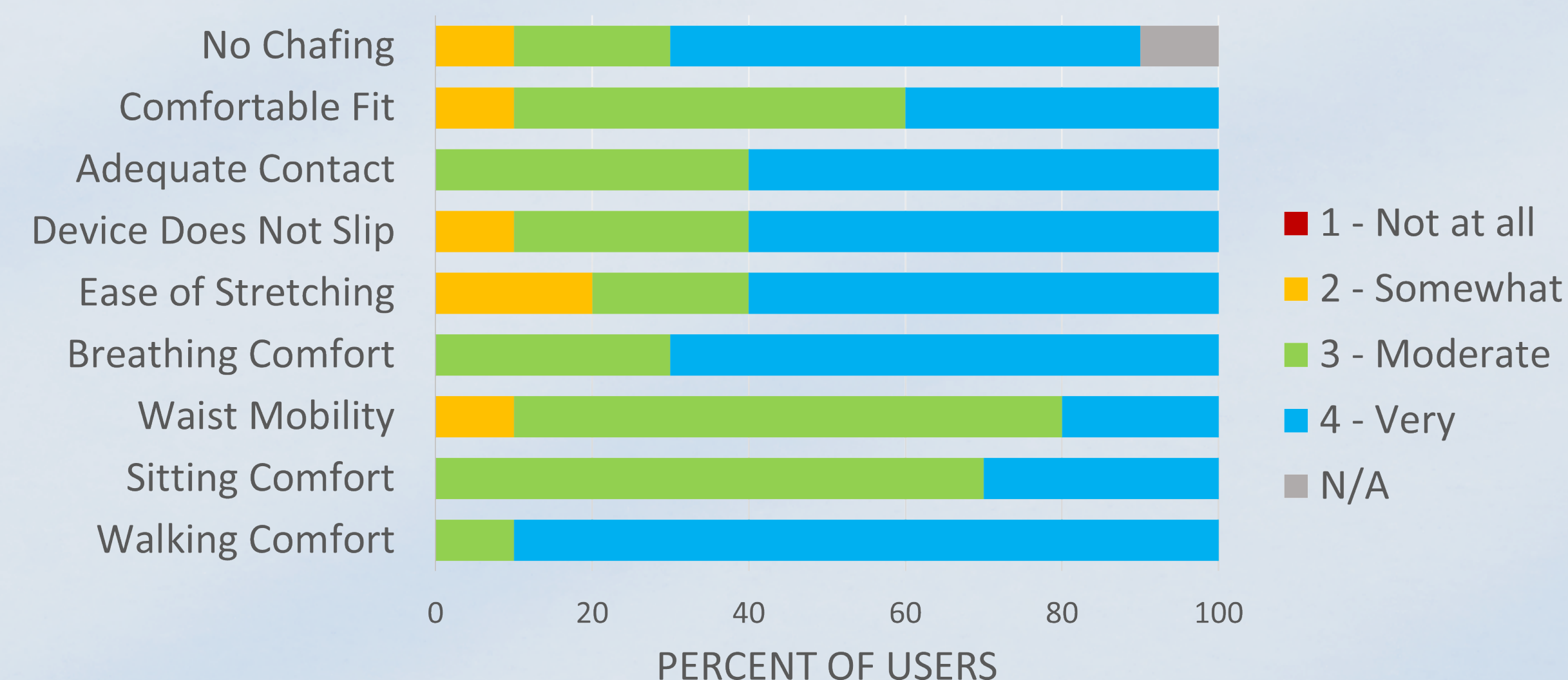


Test Results

- Thermoelectric system transfers targeted 50W of heat
- Current prototype removes 40% of target heat from user



COMFORT RATINGS



Conclusions

- Potential markets include mining, construction, humanitarian, and military
- Textile manufacturing requires significant expertise
- Distributing cooling over a wider area is a central focus of future iteration, as is battery life