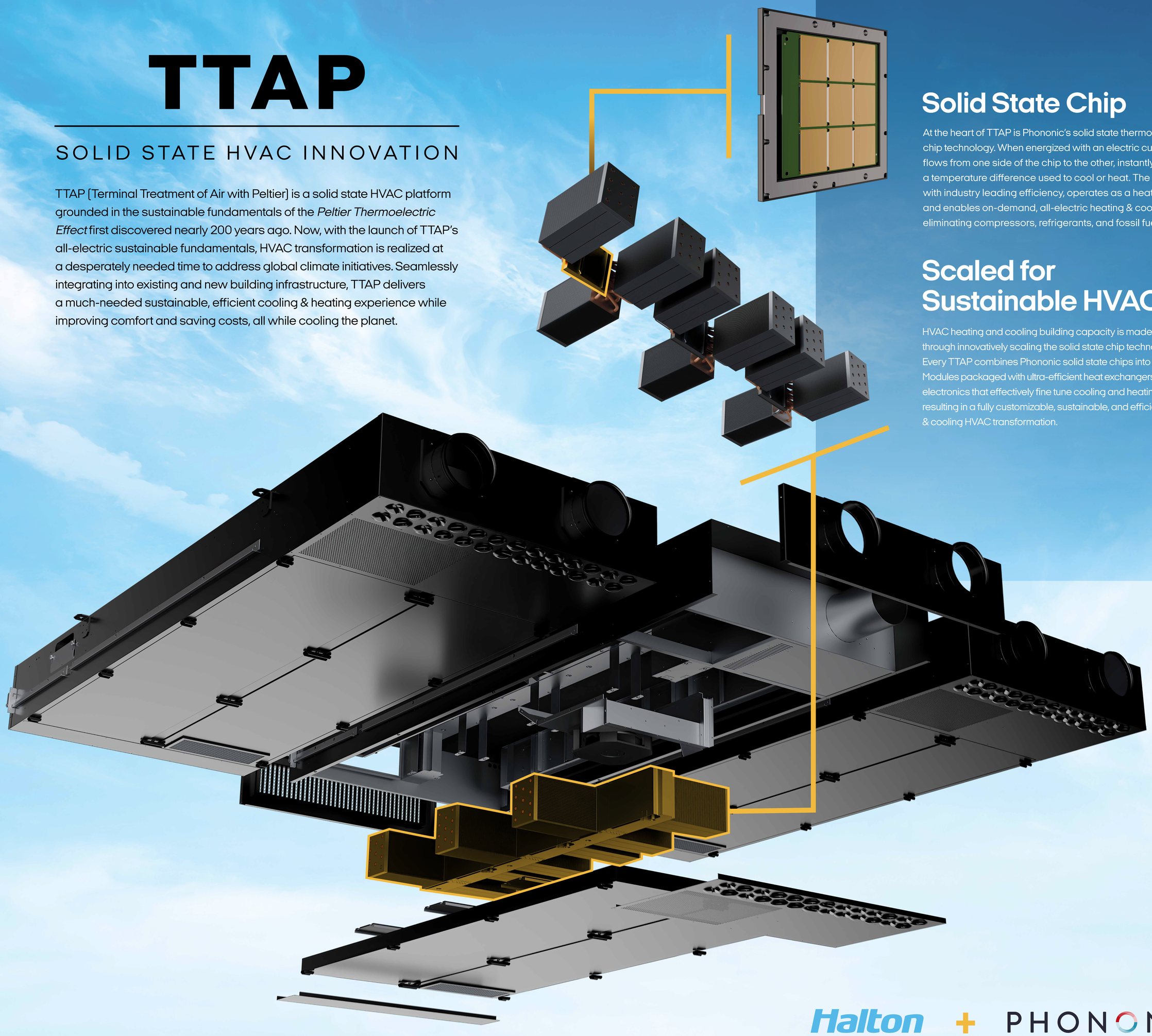
# TTAP

## SOLID STATE HVAC INNOVATION

TTAP (Terminal Treatment of Air with Peltier) is a solid state HVAC platform grounded in the sustainable fundamentals of the *Peltier Thermoelectric Effect* first discovered nearly 200 years ago. Now, with the launch of TTAP's all-electric sustainable fundamentals, HVAC transformation is realized at a desperately needed time to address global climate initiatives. Seamlessly integrating into existing and new building infrastructure, TTAP delivers a much-needed sustainable, efficient cooling & heating experience while improving comfort and saving costs, all while cooling the planet.



## Solid State Chip

At the heart of TTAP is Phononic's solid state thermoelectric chip technology. When energized with an electric current, heat flows from one side of the chip to the other, instantly creating a temperature difference used to cool or heat. The chip, with industry leading efficiency, operates as a heat pump and enables on-demand, all-electric heating & cooling while eliminating compressors, refrigerants, and fossil fuels.

## Scaled for Sustainable HVAC

HVAC heating and cooling building capacity is made possible through innovatively scaling the solid state chip technology. Every TTAP combines Phononic solid state chips into Thermal Modules packaged with ultra-efficient heat exchangers and smart electronics that effectively fine tune cooling and heating output resulting in a fully customizable, sustainable, and efficient heating & cooling HVAC transformation.

Halton + PHONONIC