



## FOR IMMEDIATE RELEASE

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### **Mainstream Engineering Awarded Contract from USAF for Next Generation Environmental Control Unit**

ROCKLEDGE, FL — **August 23<sup>rd</sup>, 2022** —Mainstream has been awarded a contract from the USAF for the Next Generation Environmental Control Unit (RECU). This award is part of an earlier 5-year GSA Purchase Order Contract for these items. This first delivery order will produce approximately 700 units at Mainstream's facility in Rockledge, FL.

Mainstream's next-generation environmental control unit, known as the RECU, is an advanced, vapor-compression heat pump designed to accommodate various refrigerants as EPA SNAP refrigerant requirements change over the 25-year lifetime of the system. The RECU has been extensively tested and can provide more than 5-tons of cooling (at 125°F ambient) as well as heating and ventilation for up to two shelters as part of the USAF BEAR Base Encampments. Additionally, the unit has been tested and certified by the USAF to operate with Joint Service Chemical, Biological, Radiological, Nuclear (CBRN) Collective Protection (ColPro) equipment.

Our patented RECU employs a highly innovative design approach and uses a rotomolded base and removable top cover to simplify maintenance and repair. The smart-grid compatible RECU includes compressor soft-start technology (to reduce inrush current during start-up), embedded diagnostics, and predictive prognostics to identify maintenance actions to keep the system operating at peak efficiency.



**MAINSTREAM's RECU is the next generation ECU in production for the USAF**

## **About Mainstream Engineering Corporation**

[www.mainstream-engr.com](http://www.mainstream-engr.com)

Mainstream Engineering Corporation is a 36-year-old Brevard County, Florida manufacturer with a history of leading-edge research and development that has resulted in advanced cost-competitive products, which are made in the USA. Founded in 1986, Mainstream's mission is to transition advanced R&D into high-quality, environmentally-safe, green, commercial products using lean manufacturing techniques. Areas of research include thermal control, energy conversion, power electronics, biomass conversion, chemical technology and materials science.

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