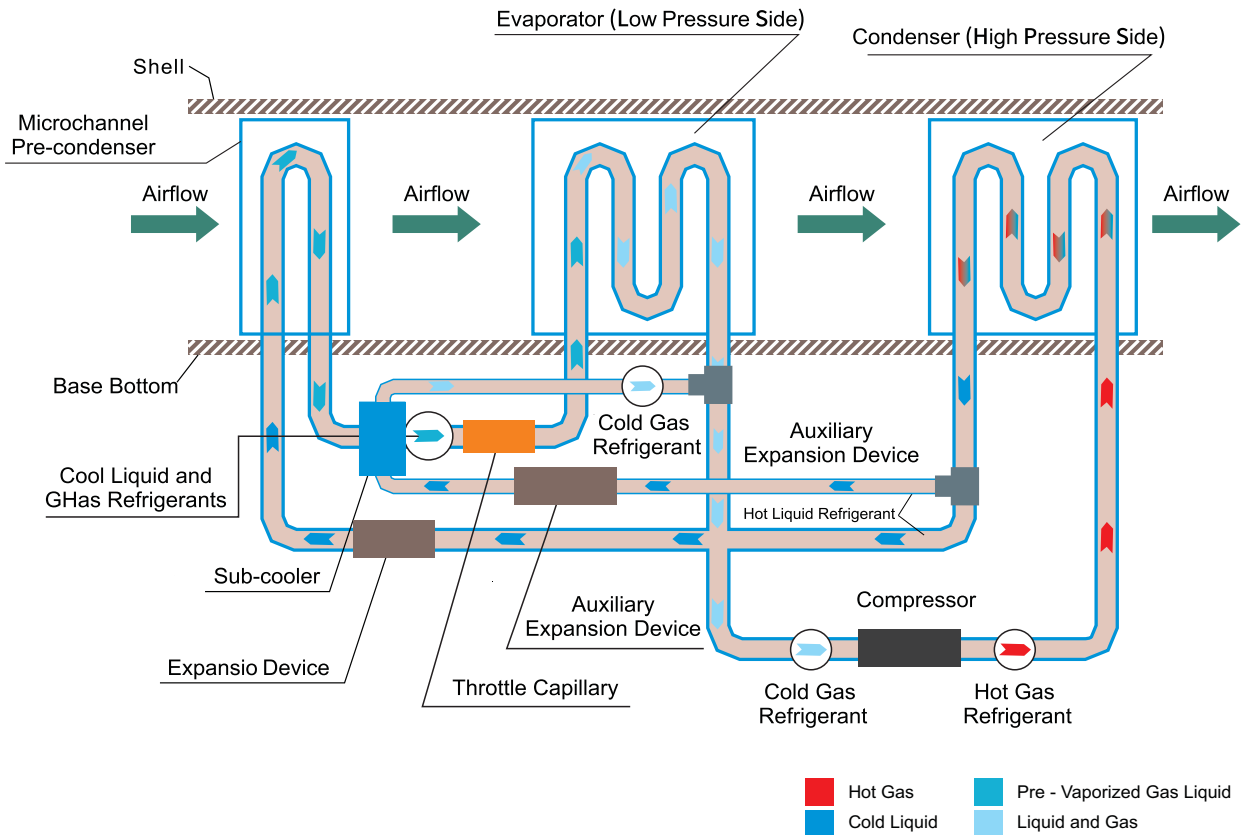


2019 Advanced SLGR Dehumidifier Precooling Circuit Technology

PATENT SKETCH:



- **Auxiliary flow path:**

The auxiliary expansion device receives the refrigerant liquid from the condenser and expands it to lower both the temperature and the pressure of the refrigerant liquid. The sub-cooler the cold liquid refrigerant from the auxiliary expansion device and evaporates it into the cold gas cold air. The body refrigerant is returned to the compressor to complete the refrigeration cycle.

- **External circulation principle:**

The humid air reaches the saturated steam state after passing through the microchannel pre-cooler, and the evaporator cools the air to below the dew point, hence increasing the water vapor condensation rate to a liquid, therefore, dehumidifying the air. The dehumidified air is heated by the condenser, then discharged.



Storm SLGR 850C

Patent Pending

Restoration & Moisture & Ventilation

ALORAIR

Alorair Solutions INC. sales@alorair.com

Add: 4240 Latham Street, Suite D, Riverside, CA 92501 Tel: 888-990-7469