

CONDENSATE EVAPORATION PACKAGE

STANDARD ON ALL THERMAL EDGE AIR CONDITIONING SYSTEMS

Thermal Edge Condensate Control is accomplished by routing refrigerant hot gas through our condensate boil off pan. The pan is located ahead of the condenser in the hottest point in the refrigerant system where the hot gas temperature is 180° F to 260° F.

Condensate is evaporated and the vapor is discharged by the condenser blower to the environment. Additionally, this condensate evaporation helps to pre-cool the hot gas, lowering the running amps and making our industrial air conditioner more efficient. By utilizing this pre-cool method, we lower the overall use of energy.

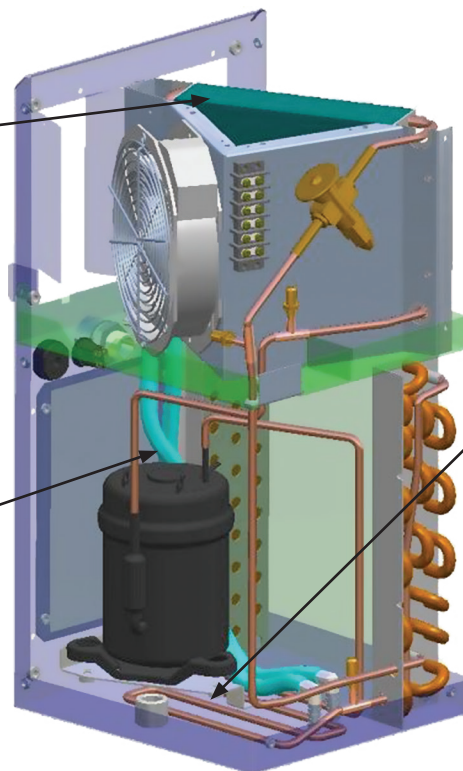
This condensate boil off pan has enough water storage capacity to dehydrate the air in your equipment enclosure and vent it off without overflow so long as the enclosure doors are closed.

In the event that the enclosure remains open, Thermal Edge does supply an *Emergency Overflow Fitting* on all of our units. Use of this Fitting is only for extreme open-door applications and should not be utilized in typical or even heavy applications.

Please Contact Thermal Edge for more information on use of this feature.

1. Condensate forms on evaporator and drips into pan

2. Dual drains each form p-traps to maintain closed loop performance



3. Condensate collects in pan among loops of superheated refrigerant tubing to boil off normal build-up of condensate. Water vapor blown through condenser coil increases performance.

Note: CS020 shown. Select components are removed for clarity



UL File # SA32252



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Temperature Control Solutions for Electrical Enclosures

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