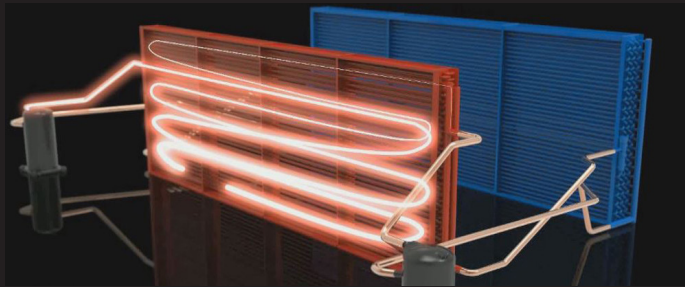


# KOOLJET ENERGY-EFFICIENT DESIGNS

## DUAL-KOOL TECHNOLOGY

Features two independent yet "interleaved circuits" which greatly improves coil effectiveness at part load because all of the coil surface from two compressors is still available to the one operating compressor. This improves the energy efficiency of the operating circuit, while still retaining the two-circuit integrity and component redundancy of the KOOLJET system.



Cooling is energy intensive during harvest when field-heat and building transmissive heat is the highest. Afterwards the respiration heat and total heat load is reduced significantly, near or below the nominal capacity of just one of the compressors. The ability to stage off a compressor is a huge energy saver over single circuit approaches. Inter-leaving is ideal for potato storage because of the holding temperatures and heat loads.

KOOLJET Fresh-air mode introduces controlled amounts of outside air. The amount of CO<sub>2</sub> in the storage room determines the amount of fresh air. Optional PLC controller can monitor and control pile CO<sub>2</sub> levels.

KOOLJET uses all of the coil surface to achieve very close approach temperatures and enhanced energy efficiency for the compressors.

KOOLJET has automatic free cooling using outdoor air as ambient conditions permit.

KOOLJET uses highly efficient hot-gas methods for defrost and reheat.

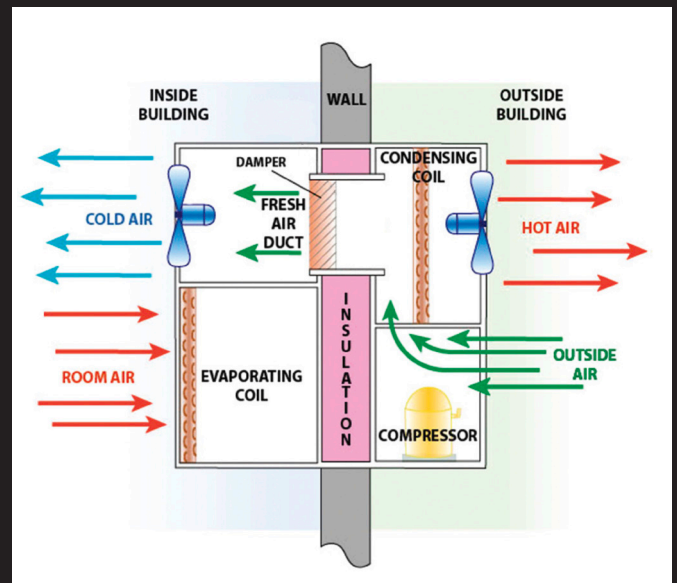
KOOLJET provides a dedicated dehumidification coil and automatic control system.

KOOLJET can provide subsystems to add and control humidity to the space as required.

## FREE-COOLING MODE

Automatic free-cooling includes an ambient temperature sensor. The KOOLJET controller operates a motorized damper and fan to provide outstanding energy savings whenever the outdoor ambient temperature is low enough to cool the storage space.

Plus, automatic dehumidification and air re-heat provide complete control over temperature, humidity and energy efficiency in a single package the fully meets your requirements for critical produce cooling.



## AUTOMATIC ENERGY-SAVINGS

Our Free-Cooling design is fully automatic to maximize all available energy savings year-round, day and night.

