



**Specialty
Heat
Transfer
Products**

Commercial AC vs Refrigeration - Or Why Can't I use that Cheaper Mini-Split unit??

Most of the units shown on the internet are commercially available AC units. The standard for the industry is .012 thick copper tubes and most of the systems are not available with a coil coating so you will see coil failures fairly quickly. The LRC designs are based on a thicker copper .016 thick wall and all our wine coils are dipped in an epoxy and cured in the oven. This is done because the wine vapors condense on the coil and get in the interface between the fin collars and the copper tube. The epoxy seals this area so the coils won't get attacked by the acetic acid.

In the case of the minisplit type of system we do not have an equivalent. We have not been able to find a mini-split evaporator that has a coated coil and can utilize the constant pressure expansion valve.

2. More flexibility. Some systems need cabling between the evap and condenser. The LRC systems are setup to do a pump down type of system to facilitate installation.

3. Evaporators only. Some resellers sell the entire system. We depend on the wholesalers to provide the condensing unit along with the other system components. We do this because the conditions are different for a refrigeration system between Florida, Phoenix and Seattle. And only the wholesalers tend to know how to configure a system for their local conditions. In addition prefer to have the condensing units and other parts sourced locally so in the event of failure parts are more readily available.