



CASE STUDY – BONDPAK™

PROBLEM: Micro-channel Aluminum Coil Leaks

The A/C package unit shown here was built with an aluminum micro-channel condenser coil. Though only approximately 6 years of age, it had developed refrigerant leaks at four microchannel connections where they meet and attach to the vertical aluminum condenser manifold-header.

Aluminum brazing repair was not an option due to the delicate nature of the micro-channels and where they were connected to the manifold.

SOLUTION: BondPAK™

The technician decided to use BondPAK™ to make the repairs and avoid further damage to the coil.

Careful cleaning to remove oil residue and surface preparation with abrasion cloth and a file was done so that BondPAK™ could be used.

BondPAK™ was applied per instructions and at 1 hour was fully cured and ready for the system to be leak tested, evacuated, and charged.

After pressure testing and evacuation was complete, the unit was back on-line within 2 hours.

