

## July Troubleshooting Problem

**QUESTION:** After you make your pressure test, what is the next step you need to take in order to continue your evaluation of this equipment?

**ANSWER:** The answer to this problem is that the evaporator coil is extremely dirty and needs to be cleaned. It's also likely that the fins of the squirrel cage air handler are also loaded with dirt and debris and need to be cleaned. Since this was a rental unit, it's very possible that the tenants didn't pay much attention to replacing a dirty filter, and even operated the unit without any filter at all for an extended period of time, which would contribute to an extremely dirty indoor coil. A 0.6 inch pressure drop measured across the indoor coil proved a severe restriction in airflow. In a situation such as this, the maximum pressure drop for a wet coil would be no more than  $\frac{1}{2}$  of what was measured, approximately 0.3 inch wg.