

## **What could go wrong?**

The IonCleanse® retails for \$2,895. The cheapest imitation retails for \$800, and one enterprising internet web site offers 3 units for \$2,200, less than our cost of manufacturing. It's very easy for someone to make an imitation. All you need is the ability to imitate another product, a garage workbench, a cheap step-down transformer, a homemade circuit board, an enclosure, a power cord, some wire and a few strips of metal that go into the water.

Besides the obvious warranty, durability and reliability concerns that imitations present, we feel there are some very serious safety issues that makers of these units have not addressed.

A few of those issues are listed below:

(1) Electric Shock Hazard - This can result if a poorly designed unit is repeatedly overloaded. A thin piece of paper insulation in the power transformer is all that separates the array output from the 120 volt AC power line input. If the paper insulator in the transformer is overheated repeatedly because the array has been overloaded, it may fail. The resulting failure could expose your client to 120 volts AC with amperages that pose an extreme hazard. The IonCleanse® has passed and is certified as specified under Electrical Safety by Council Directive 73/23/EEC EN60335-1-2002. The power supply is protected from overload and has been tested to comply with UL standards for leakage current and for electrical shock hazard.

(2) Premature System Failures - A poorly designed power supply connected to an array circuit without a current limiter will cause the circuit and array to fail prematurely. The IonCleanse® unit was designed to prevent damage to the control unit under normal operation due to poor water conditions or operator error. We show the power output readings to the array in volts and amps. If a condition occurs that can damage the unit, the computer program will warn the operator and shut off the array. As a result our failure rate is less than 1 unit in 1,000 sold. Some of the other units on the market have failure rates as high as 80 to 100 percent.

(3) Poor Power Supply Filtering - Unregulated and unfiltered alternating current (AC) flows will interfere with the body's electrical system. Side effects from this phenomenon include but are not limited to: fatigue, dizziness, physical weakness, depression, disorientation, headache and increased electrical sensitivity. Many of the imitation units we have tested show high levels of AC ripple in the array circuit due to poor power supply design. The IonCleanse® unit provides a clean, noise free DC output to the array. If a fault or overload occurs, the internal safety circuits will warn the operator and disable the array output.

(4) Static Interference - Static discharges are common in the dryer winter months. A static spark from the human body can cause the destruction of the computer control circuit board or make the unit operate in an unsafe or unexpected manner. The IonCleanse® has been tested and certified to meet the standards of EMC (89/336/EEC and amendments). One of the many tests of this standard is to place an 8,000 volt discharge on every surface of the IonCleanse® control unit. The unit must operate perfectly in order to pass this test.

(5) Federal Regulations - All electronic equipment using computer chip or switching power supply may generate radio frequencies. These devices must pass tests for compliance with FCC regulations in order to qualify for public sale in the United States. The IonCleanse® has passed and is certified under FCC class B by the Hewlett Packard Hardware Test Center, which is accredited by A2LA (accreditation No. 905.01)

## **How can you tell if a vendor's unit is safe?**

Listed above are several exhibits with over 150 pages of test reports detailing all the tests passed by the IonCleanse® attesting to its safety. The FCC (Federal Communications Commission) mandates that any product that uses a computer chip must pass these radio emission tests before it can be sold to the public. Ask your vendor for his FCC certification report and for their UL and CE safety certifications to make sure you are purchasing a safe unit. Get the full laboratory report!

*The IonCleanse® is not intended to treat, cure, prevent or diagnose any disease or ailment.*

