## **PURE Humidifier Co.**

**Sample Specification**

**“ERDDR” Series**

**Humidifier**

The humidifier shall be electrically heated immersion heater type as manufactured by PURE Humidifier Co. of Chaska, Minnesota.

The humidifier shall be tested and approved by ETL Testing Laboratories, Inc.

The humidifier shall be suitable for use with deionized, demineralized, or reverse osmosis water with a maximum purity of 18 mega-ohms per centimeter resistivity.

The humidifier shall have an evaporating reservoir with a gasket-sealed cover that is capable of operating at pressures of at least 19” (48 cm- W.C.) without steam or water leaks. The reservoir shall be made of type 304L stainless steel with welded joints.

A stainless steel float-operated low water cut-off switch shall be provided. The float switch shall provide positive low water cut-off of the humidifier immersion heaters.

A stainless steel, float-operated, water fill valve mounted on the top near the front shall be provided. The fill valve shall provide automatic refilling of the humidifier reservoir. The water inlet shall be located to allow a minimum water gap of 1-1/2” (3.81 cm).

The immersion heater(s) shall be incoloy-sheathed and designed for 80 watts per square inch. They shall be attached to the reservoir cover and be easily removed for cleaning or inspection. Expansion and contraction of the heater sheath allows mineral build-up to flake off.

The humidifier shall have a 1/2” (1.3 cm) overflow pipe to prevent overfilling of the humidifier reservoir.

A ½" stainless steel ball valve shall allow for manual draining of the humidifier reservoir.

The humidifier shall have a manual reset over-temperature switch factory-installed on the humidifier reservoir cover. The temperature switch shall provide humidifier over-temperature protection.

SCR Modulation, 100% solid state power controller shall be provided in the control box. The SCR power controller will modulate the humidifier between 0-100% of its rated capacity according to humidistat demand.

The electrical control box shall be mounted on the humidifier cover. The control box shall include a magnetic contactor, fused control circuit transformer, numbered terminal block, and heater fuse(s). The high voltage wiring shall be shielded to prevent shock hazard. The modulating control voltage shall be field adjustable to match the controlling input signal.