PURE Humidifier Co.

Options

# “ER-ERDDR" Series

## **To Humidifier**

**Insulation.** Unit shall be covered with 3/4” (1.90 cm) thick fiberglass duct insulation. Insulation material shall have aluminum facing.

**DCT-927 Self-Actuated Drain Tempering Kit.**  The drain tempering kit is designed to provide drain and condensate water at a temperature of less than 140º F.

**Condensate Pump for Humidifier Generator.** Hartell Condensate Pump SC-1AX - used to lift condensate from the humidifier generator. Lifts 212°F condensate up to 36 feet. Separate 120V (3.1 amp) services required by others.

#### Injection Tubes

**Injection tube(s) and Flexible Hose.** Each unit shall include one or more 10 ft. (305 cm) sections of 1 ½” (3.8 cm) I.D. flexible hose and a 1 ½” (3.8 cm) O.D. stainless steel injection tube long enough to extend across the duct. Steam ports shall direct steam upward into the airflow. The reservoir cover shall have a matching connection so the flexible hose can be connected with two stainless steel hose clamps.

A two-piece duct plate shall be provided to seal the duct opening.

**Fast-Pac Multiple Tube Assembly.** Tube assembly consists of a stainless steel supply/condensate header with a 3/4"-NPT drain connection and horizontal 1½”Ø stainless steel injection tubes.

**Insty-Pac Multiple Tube Assembly.** Tube assembly consists of a steam supply/separator header constructed of stainless steel with steam inlet, condensate drain outlet and steam jacketed injection tubes welded to header. Steam jacketed injection tubes constructed of stainless steel with punched steam ports of the proper size and spacing to deliver the maximum specified capacity.

**High Efficiency Insulated Tubes.** Thermoplastic wrap reduces condensate loss and unwanted heat gain during cooling mode.

**Condensate Drain Tee.** Tee has 1½”Æ inlet and outlet and a ¾” NPT drain connection. The tee is constructed of type 304L stainless steel.

**Controls**

**SCR Modulation.** A 100% solid state power controller shall be factory mounted and wired on the control panel and provide modulating control of the humidifier capacity from 0-100%.

**VAV Control.** A dual input, single output auto-selector shall be supplied to provide a single modulating output signal to the humidifier control cabinet. The auto-selector shall allow the use of modulating wall or return duct mount humidistat and modulating duct high-limit humidistat to control critical variable air volume (VAV) air handling systems. The system shall automatically determine which of the two modulating signals is dominant and slowly reduces the humidifier output capacity thus preventing oversaturating of the VAV System.

**Wall Mount Humidistat.** A wall mount 0-10 vdc modulating humidistat shall be shipped loose for field installation.

**Duct Mount Humidistat.** A return duct mount 0-10 vdc modulating humidistat shall be shipped loose for field installation.

**Airflow Proving Switch.** A diaphragm operated airflow proving switch with adjustable range of .05” W.C. to 2.0” W.C. shall be provided for field installation.

**Duct High-Limit.** A high-limit humidistat shall be provided for duct installation. The high-limit shall be field set to prevent over saturation within the supply duct.