

**PURE Humidifier Company**  
**Sample Specification**  
**Insty-Pac Series**

The humidifier shall be capable of removing condensate from the steam by means of a stainless steel supply header/separator, for the purpose of providing condensate free steam.

The header/separator shall be designed with an internal baffle to assure equal steam flow to the injection tubes. The header/separator shall include an internal stainless steel screen to prevent objectionable noise due to pressure drop across the valve.

Steam shall be injected into the air stream through round stainless steel steam jacketed injection tubes. The tubes shall be steam jacketed to assure condensate-free vapor. The jacketing shall only be hot during a call for humidity, eliminating unwanted heat gain when no humidification is required. The steam emission ports shall be precision punched and shall be of sufficient size and number to provide constant and uniform distribution of steam over the entire width of the duct.

The injection tubes shall be completely factory assembled and welded to a stainless steel header/separator, ready for installation and piping connections.

The assembly shall be an all welded design eliminating the use of o-rings and couplings that may cause leakage and on going maintenance.

The humidifier shall be designed so that only one side of the AHU/duct is accessed for supply and condensate piping. An air blank-off plate shall not be required.

A normally closed control valve shall have modified linear flow characteristics to assure enhanced control at low demand, shall close off against the steam and shall be of sufficient capacity as required. The valve operator pneumatic modulating (standard) or electric modulating (optional) shall be supplied by PURE Humidifier Company.

The humidifier shall be supplied with float and thermostatic condensate traps (shipped loose) and duct plates (to seal completely at the duct opening).

The humidifier shall be a PURE Humidifier Company humidifier as manufactured by PURE Humidifier Company, Chaska, Minnesota.