

MULTI-STREAM HD

High Efficiency Insulated Distributor

The Neptronic **Multi-Stream HD** is a high efficiency insulated steam distributor. It is used in a humidification system that injects and disperses atmospheric or low pressure steam into a building's air supply system to attain the desired humidity level.

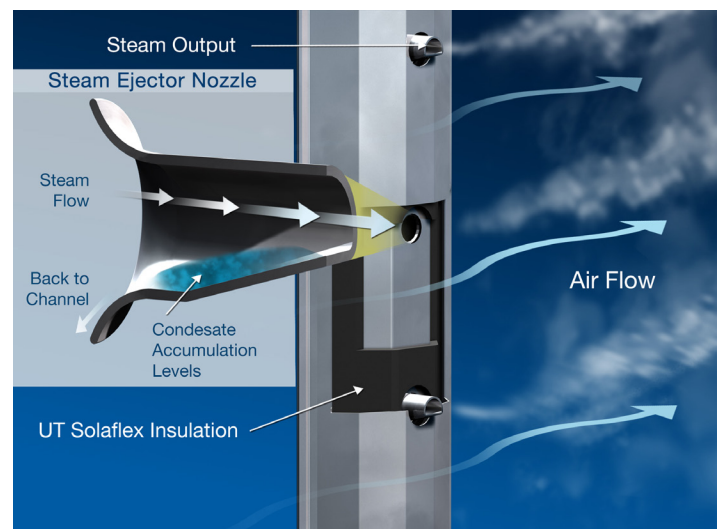
COMPATIBILITY

This unique technology is compatible with the following Neptronic humidifier series for atmospheric and low pressure steam applications, and when humidifying with the HVAC system in cooling mode.

- **SKE4:** Resistive Electric Steam Humidifiers
- **SKG4:** Gas Fired Humidifiers
- **SKS4:** Steam to Steam Humidifiers
- **SKD:** Direct Steam Injection Humidifiers

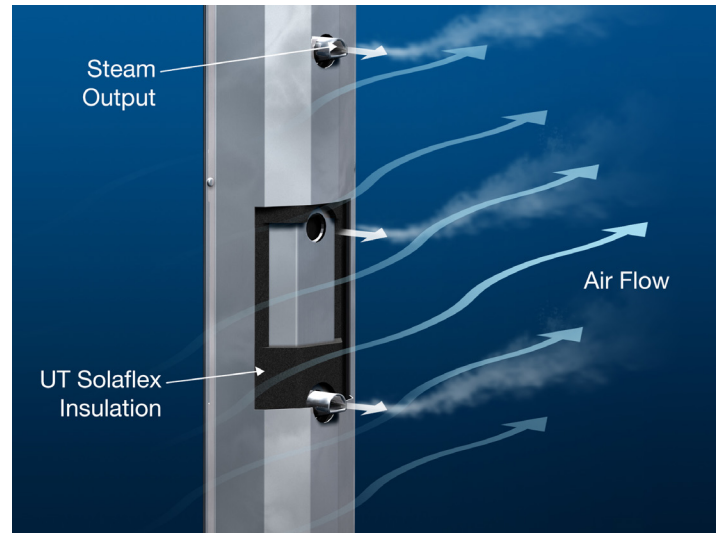
BENEFITS

- Wasted energy is reduced by up to 85%. This includes steam supply consumption and wasted condensate generated by heat transfer from hot channel to air stream.
- X-Stream technology's energy savings will pay back the difference invested in approximately 15 months. Payback varies depending on several factors, such as application, site, energy costs and other system design variables. Please do not hesitate to contact us and we will help you calculate your payback.
- Prevents condensate ejection on start up and during any modulating humidity demand
- Minimizes non-wetting distance
- Maintenance-free vertical dispersion tubes



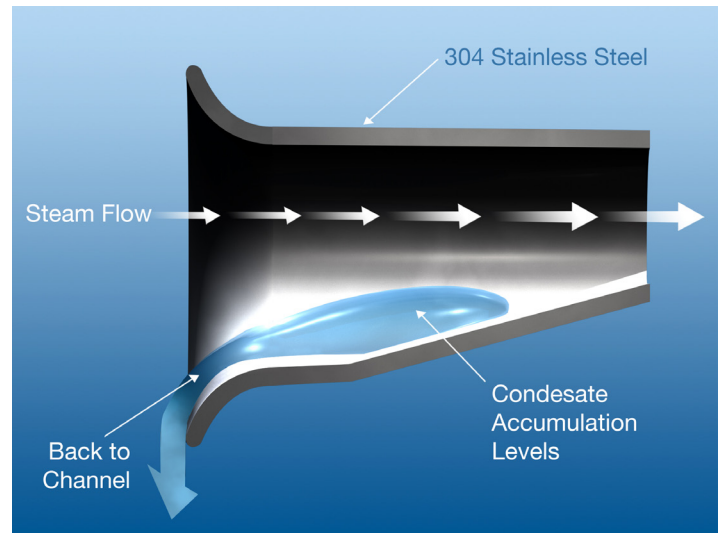
CHANNELS AND HEADER

- Double wall 304 stainless steel with encapsulated Armacell UT/Solaflex™ foam insulation
- Internal design ensures that insulation avoids contact with airflow and with saturated steam
- Header's internal design equally supplies steam to all steam dispersion channels
- Dispersion channels can be factory or field assembled to the header



STEAM EJECTOR EYELETS

- Located on each side of the steam dispersion channels to supply steam perpendicular to the air flow
- 304 stainless steel
- Internal slope returns condensate generated within the eyelet to the steam dispersion channel
- Steam ejection point located away from the steam dispersion grid's external sheath



Specifications	Multi-Stream HD
Insulation Material	Encapsulated Armacell UT/Solaflex™ foam insulation
Insulation Thickness	<ul style="list-style-type: none"> • Channels: 3/8" (10mm) at the edges and below, and 1/2" (13mm) on top • Header: 1/4" (6mm)
Insulation rating	300°F (150°C) continuous temperature
Thermal Conductivity	0.28 Btu * in/(hr*ft²*F) [0.04 W/m*°C] as per test method ASTM C177 or ASTM C518
Steam Channels, External Sheath and Header	304 stainless steel Channel=20 gauge; External Sheath=24 gauge; Header=18 gauge (both walls)
Steam Ejector Eyelets	304 stainless steel
Complies with	<ul style="list-style-type: none"> • ASTM E84 which is a flame spread and smoke development index rating • UL181 test requirement for mold growth • ASTM G21 test requirements for fungi resistance • ASTM G22 test requirements for bacterial resistance