

# HUMIDITY TECHNOLOGIES

Precision Humidity Control Solutions for Every Industry



Automotive



Pharmaceutical



Semiconductor

Core  
Competency in  
High Temperature  
Applications and  
Process Air  
Treatment with  
100% Fresh Air



Aerospace



Data Center



Explosives

## Description

Established in 1976 Neptronic has a manufacturing facility of over 10,000 sq. mtrs (1,00,000 sq.ft.) in Montreal, Canada. Neptronic branded products are manufactured in this fully integrated factory.

## In-house Facilities

- Electronic and Hardware Design
- Software and firmware design
- Research and Development
- Sheet metal cutting and welding
- Electromechanical assembly and manufacturing
- SMT circuit board manufacturing
- Product testing and Quality Control
- Packaging and shipping
- Technical sales and support
- Unlike other competitors who are more assemblers

## The company manufactures a range of HVAC products such as

- Humidifiers / Coolers
- HVAC controls
- Actuators and actuated valves
- Electric heaters
- Integrated Management System (IMS)

Neptronic's range of humidifiers are now available in India through Humidity Technologies and we are pleased to present some of the in-demand products with unique features :

- Electric resistive steam humidifiers ( 5 Kg/hr to 120 Kg/hr)
- Steam exchange humidifiers (23 Kg/hr to 570 Kg/hr)
- High pressure atomizing humidifiers ( 125 LPH to 1250 LPH)
- Steam Distribution systems

# SKE4

## Electric Steam Humidifier

Electric Resistive Steam Generation

## Advantages

- Capacities from 5 to 120 kg/hr
- Separate plumbing, controls, and high-voltage sections
- Remove the stainless steel evaporation chamber with ease
- Patent-pending water level detection system using 2 sensor technologies
- Anti-Foaming Energy Conservation (AFEC) System
- Available with BACnet MS/TP or Modbus communication interface
- Independent scheduling system for unit operation and drain cycle
- Drain water tempered to below 60°C



# HUMIDITY TECHNOLOGIES

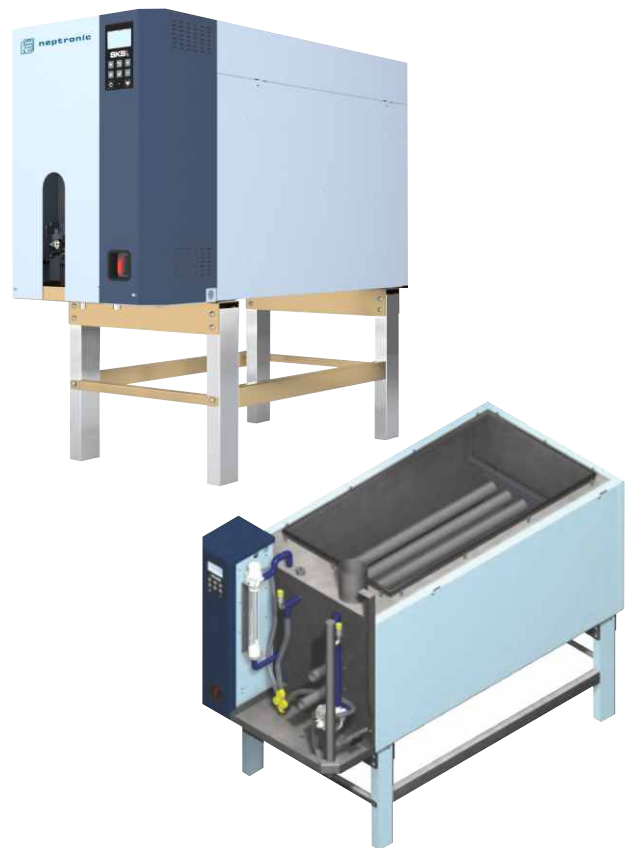
## SKS4

### Steam Exchange Humidifier

For Chemical Free Steam using Boiler Steam

#### Advantages

- Capacities from 23 - 570 kg/hr of steam
- Stainless steel 316 (for raw steam) heat exchangers
- Comprehensive scale management system
- Ease of servicing: clean and re-assemble within minutes
- Patent-pending water level detection system using 2 sensor technologies
- Uses potable, RO or DI water
- Available with BACnet MS/TP or Modbus communication
- Optional ethernet module for BACnet IP or Modbus IP, and web services
- Anti-Foaming Energy Conservation (AFEC) System
- Drain water tempered to below 60°C



## SKH4

### Atomizing High Pressure Humidifier

High humidification at low power

#### Advantages

- High turndown and cost-effective brass oil-lubricated pump.
- Low maintenance and hygienic stainless-steel water-lubricated pump
- Pump station capacity 210-2,800 lb/h (100-1,250 L/h)
- Cost effective on/off motor control
- Energy efficient VFD motor control
- Up to 6 stage valves
- Valves inside pump station or remote
- Up to 4 zones per pump station
- Integrated, Multi-Platform controller
- 6-10 lb/h (3-5 L/h) stainless steel anti-drip nozzle to spray water into fine 7-35-  $\mu$ m water droplets
- New in space fan-assisted mist distributors
- Custom-made nozzle rack to fit your duct or AHU dimensions.



# Steam Distribution Systems

## Description

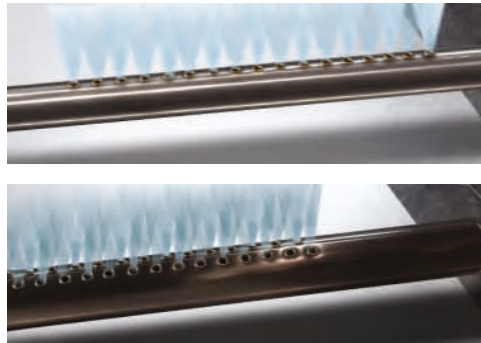
For duct distribution installation, the steam humidifier requires either a Multi-Steam, S.A.M. or S.A.M.E2 as a steam distribution system to disperse steam.

For fan distribution installation, the SKE4 can supply steam directly with an SDU (Steam distribution unit) into the room without a duct network or for a localized area.



**Multi-Steam™ SD**

For absorption distance of less than 3' (914mm)



**S.A.M. & S.A.M.E2**

For absorption distance of less than 5' (1500mm)



**SDU**

For Models SKE4-E05 to SKE4-E40

## Why Choose Us

### Application Engineering Excellence

Precision in application engineering is fundamental to achieving optimum humidification performance, system reliability, and energy efficiency.

**Application engineering goes beyond product selection.** We engineer humidification and air-treatment solutions by evaluating the complete operating environment including **airside conditions, psychrometrics, process loads, equipment characteristics, controls, and system integration.**

Led by Principal Engineer **Shridhar Gokhale**, our team brings **45+ years of hands-on, multidisciplinary engineering experience** across demanding industrial and HVACR applications, including **10+ years in humidification** and **30+ years in HVACR design-build and project execution.**

This depth of cross-industry experience enables us to deliver **application-specific engineering solutions, not catalogue-based equipment selections.**

Our engineering approach integrates:

- Psychrometric analysis and airside assessment
- Process and environmental requirements
- Humidification & dehumidification load calculations
- Technology and equipment selection
- System configuration and integration
- Controls, sequencing, and operational requirements

We engineer precision air-treatment and humidity-control systems for demanding applications, including 100% fresh-air systems, pharmaceutical processes, high-temperature humidification and dehumidification, and critical environments with tightly defined temperature and humidity limits.

We are committed to engineering integrity, technical transparency, and ethical dealings.

Contact us today to start building a dependable, precisely engineered air treatment solution that meets your process requirements and delivers long-term value.

## HUMIDITY TECHNOLOGIES

205, Neelkanth Commercial Centre, Sahar Road, Andheri East, Mumbai - 400 099. Maharashtra. INDIA.

+91 77380 21149

shridhargokhale@humiditytech.in

humiditytech.in