SKV EVAPORATIVE COOLING





SKV EVAPORATIVE COOLING HUMIDIFIER

In an evaporative humidifier, water is supplied to the top of the evaporative module and flows down the wet media (like a waterfall). Warm dry air passes through the wet media, evaporates water and thus raises the humidity level. The SKV also offers up to 12°C of cooling as a result of the transfer of energy when the water evaporates.



SKV Advantages

- Very low energy consumption (< 1kW)
- Hygienic operation
- Environmentally friendly
- Very low maintenance

- Free cooling up to 12°C
- Custom modular design to fit any application
- Low pressure drop

Typical Applications

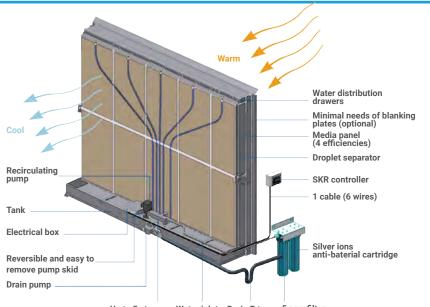
The SKV Evaporative Cooling humidifier is ideal for any application requiring cost effective and hygienic solutions for humidification needs with free cooling up to 12°C. With very low energy and water consumption, the SKV is the perfect complement to any green or LEED building. The SKV can be installed in applications such as:



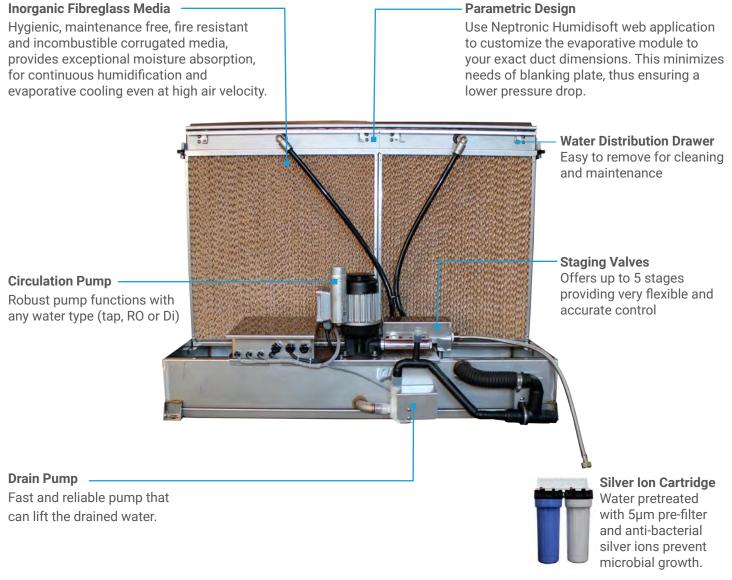
Typical Installation

Use the Neptronic Humidisoft web application to customize the evaporative module to your exact duct dimensions. This minimizes the need of blanking plates, thus ensuring a lower pressure drop.

The SKV is easy to install. Just connect the drain, water supply, power supply, and 6 low-voltage wires between the controller and the evaporative module. The controller's stainless steel IP56 rated enclosure allows for outdoor installations.



Up to 5 stages Water inlet Drain P trap 5µ prefilter



SKV Controller

The SKV controller is configured specifically for your SKV Evaporative Humidifier.

- · Microprocessor based, field configurable controller
- · Master/slave configuration for up to 4 evaporative modules
- On/Off or modulating control type
- Real-time clock with flexible scheduler
- · Simple viewing and exporting of trending log and alarm log
- · In-field firmware upgradeable via SD card
- · Easy connection with only one 6-wire control cable
- · Stainless steel IP56 rated (equivalent to NEMA type 4) enclosure for outdoor installations
- 8 buttons and menu driven 128 x 64 LCD

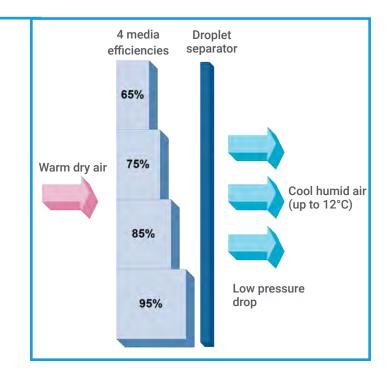


neptronic.com

SKV Media Panels

The SKV Evaporative corrugated media is made of fibreglass material bounded with a special inorganic compound, which allows exceptional moisture absorption, ensuring continuous humidification and evaporative cooling even at a high air velocity. The inorganic compound makes it hygienic, fire resistant and incombustible.

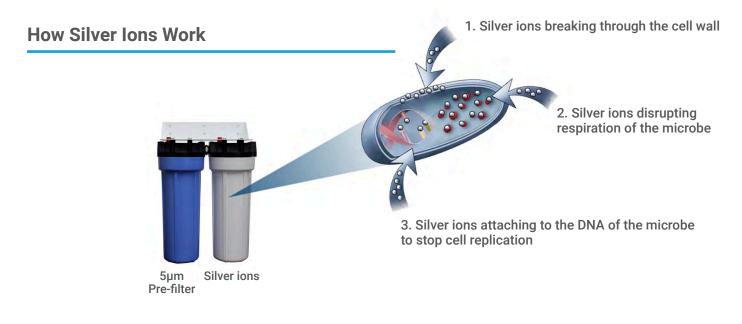
- · Inorganic and inflammable material
- · Safe & hygienic
- Low pressure drop
- Trouble free maintenance
- · No water treatment required
- No risk of over saturation
- Available in 4 efficiencies: 65%, 75%, 85% and 95%
- · Media frame made of stainless steel
- Media easily removable from stainless steel frame



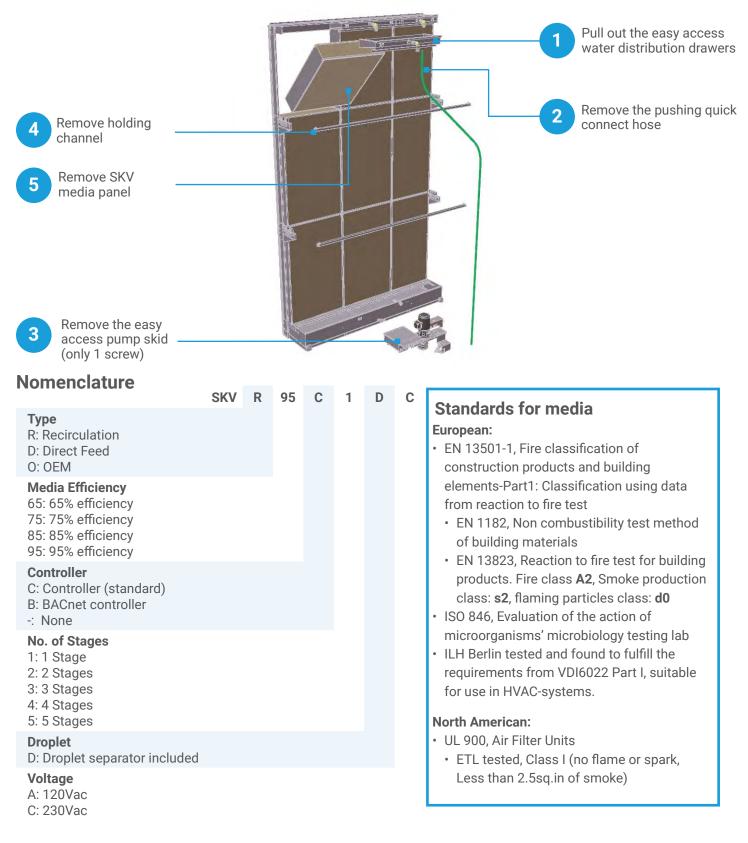
Water Quality

Hygienic operation with any type of supplied water quality (tap, RO or Di)

- · Self-cleaning, odor free media
- Water treated with 5µm pre-filter
- · Anti-bacterial silver ion dosing cartridges prevent microbial growth
- UV sterilizer on water line (optional)



The SKV has been designed for easy access to components of the evaporative module for maintenance. Five easy steps:





Specify your SKV online

Humidifer System Design and Specification Web Application

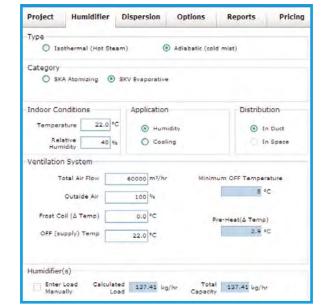
Ready to specify your Humidifier? Neptronic has developed a web application that saves you time when sizing and specifying Neptronic commercial, industrial or residential humidifiers.





Features

- Automatic humidification load calculation
- Customize evaporative module to exact duct dimensions
- Web based
- · Selection specific report generator
- Only options related to your selections appear
- · Manage users, clients, job sites and humidifier specs
- History log



Project Humidifier Dispersion Options Reports Pricing Duct Dimensions System Pressure Width 3500 mm Negative Height 3000 mm O Positive Mixed Conditions ON Conditions OFF Conditions Temperature 26.9 °C Temperature 24 °C Temperature 22 °C Relative 21 % Relative 40 % Relative 25 % Humidification Humidification Efficiency 37 % Face Velocity 2.5 m/s Dispersion Dimension (width × height) 3000mm × 2750mm Model Pressure Drop SKV Evaporative 30Pa Total: 30Pa

Easy to Use

Go to neptronic.com, select Humidisoft and log in. Enter design requirements and Humidisoft automatically calculates the humidification load and adjusts available options based on your selections. When done, print a complete schedule, CSI and/or submittal report at the click of a button.

neptronic.com

Humidifier Product Line



Electric



SKE4

- · Capacities from 5 120 kg/hr
- Remove chamber easily, without tools
- Outdoor unit available

Residential



SKR

- Capacities from 3 5 kg/hr
- Permanent cleanable chamber
- Reliable siphon drain



- · Capacities from 2 750 kg/hr
- Jacketed or Multi-Steam[™] SD/HD
 Unique electronic steam controller
- Optional pressurized condensate return (PCR) system

Gas Fired



SKG4

- Capacities from 50 400 kg/hr
- Modular design
- Outdoor unit available

High Pressure Atomizer



SKH

- Capacities up to 2100 kg/hr
- Up to 10 zones
- Installation in-duct or in-space

Steam Distribution



- Multi-Steam[™] SD/HD distribution
 S.A.M. & S.A.M.E2 wands
- SDU (Space distribution unit)

Steam to Steam



SKS4

- Capacities from 15 670 kg/hr
- Scale management system for easy maintenance
- Insulated external panels

Evaporative



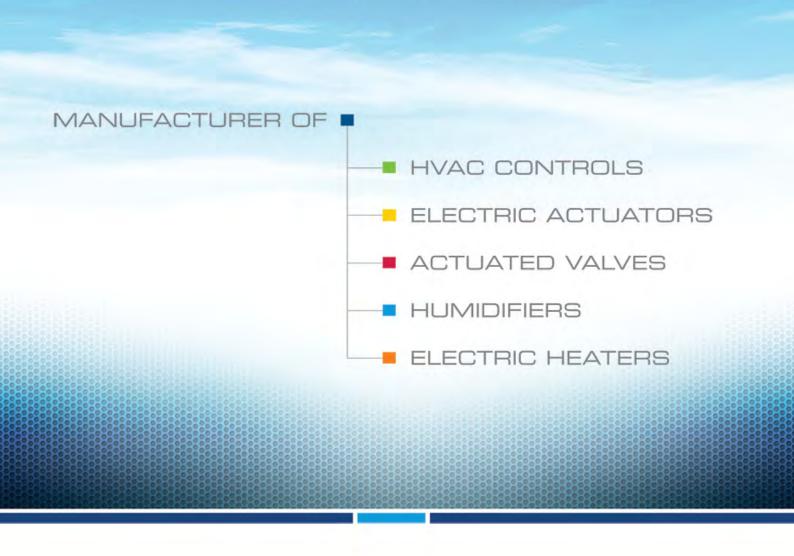
SKV

- Free cooling up to 12°C
- Custom design to fit your application
- Hygienic operation with silver ion dosing system

Humidity Controls



- Humidity controls/sensors
- Safety controls
- BACnet compatible





SKV-EBA4-191009