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 (21.5°F) 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
- Typical Applications

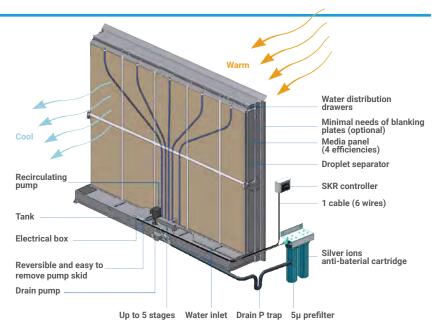
The SKV Evaporative Cooling humidifier is ideal for any application requiring cost effective and hygienic solutions for humidification needs with free cooling up to 12°C (21.5°F). With very low energy and water consumption, the SKV is the perfect complement to any green or LEED building. The SKV can 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.



Free cooling up to 12°C (21.5°F)

Low pressure drop

Custom modular design to fit any application

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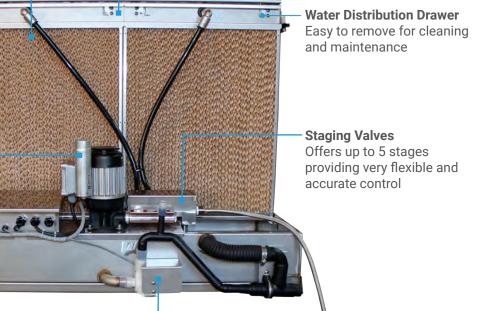
System Overview

Inorganic Fibreglass Media

Hygienic, maintenance free, fire resistant and incombustible corrugated media, provides exceptional moisture absorption, for continuous humidification and evaporative cooling even at high air velocity.

Parametric Design

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



Circulation Pump

Robust pump functions with any water type (tap, RO or Di)

Drain Pump _

Fast and reliable pump that can lift the drained water.

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



Silver Ion Cartridge

Water pretreated with 5µm pre-filter

and anti-bacterial silver ions prevent microbial growth.

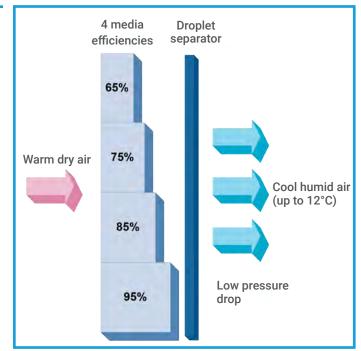
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Hygienic and Safe

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

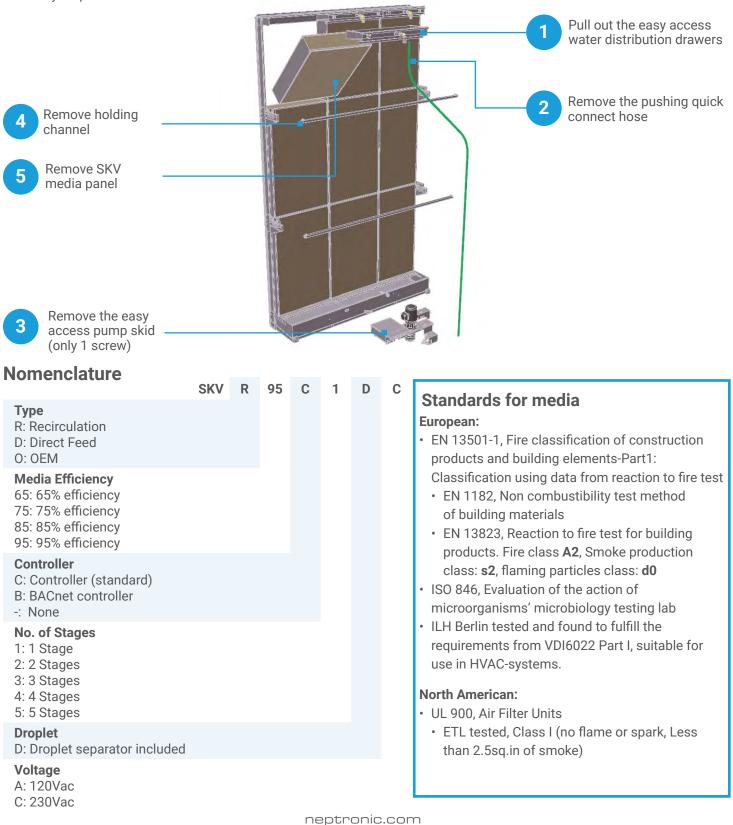
Hygienic operation with any type of supplied water quality (tap, RO or Di)

- · 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)



Easy Maintenance

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.





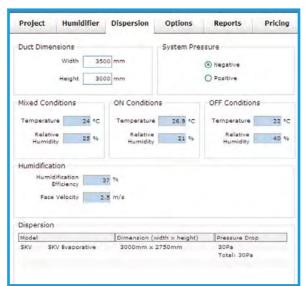
Features

- · 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

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.





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Humidifier Product Line





