











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.

Up to 12°C

SKV Advantages

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

- Free cooling up to 12°C (21.5°F)
- 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 (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:

- Data Centers
- Paint Shops

Amphitheaters

Greenhouses

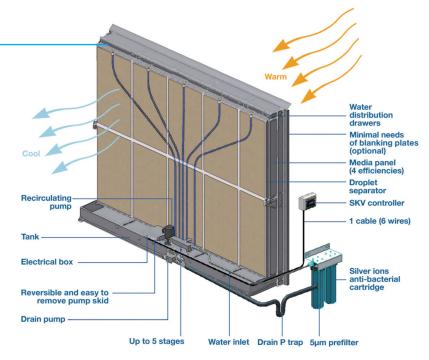
Commercial Buildings



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.



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 plates, thus ensuring a lower pressure drop.

Water Distribution Drawer

Easy to remove for cleaning and maintenance

Staging Valves

Offers up to 5 stages providing very flexible and accurate control.

Circulation -Pump

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

Silv Can Wate with 4 and a

Silver Ion Cartridge

Water pretreated with 5µm pre-filter and anti-bacterial silver ions prevent microbial growth.

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

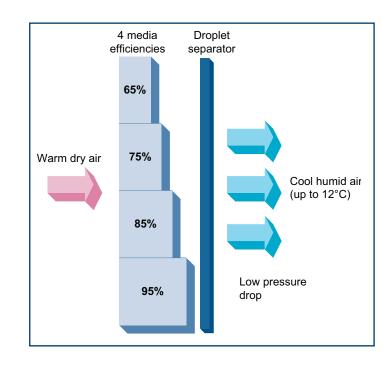


Hygienic and Safe

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



1) Silver ions break through

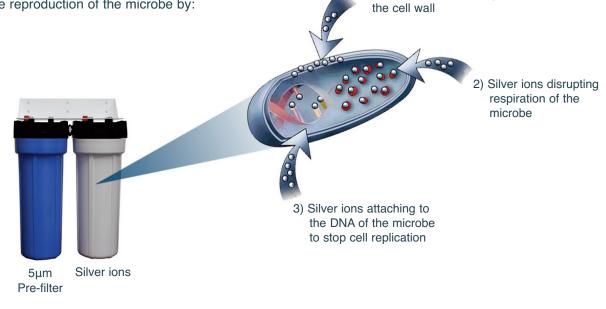
Water Quality

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)

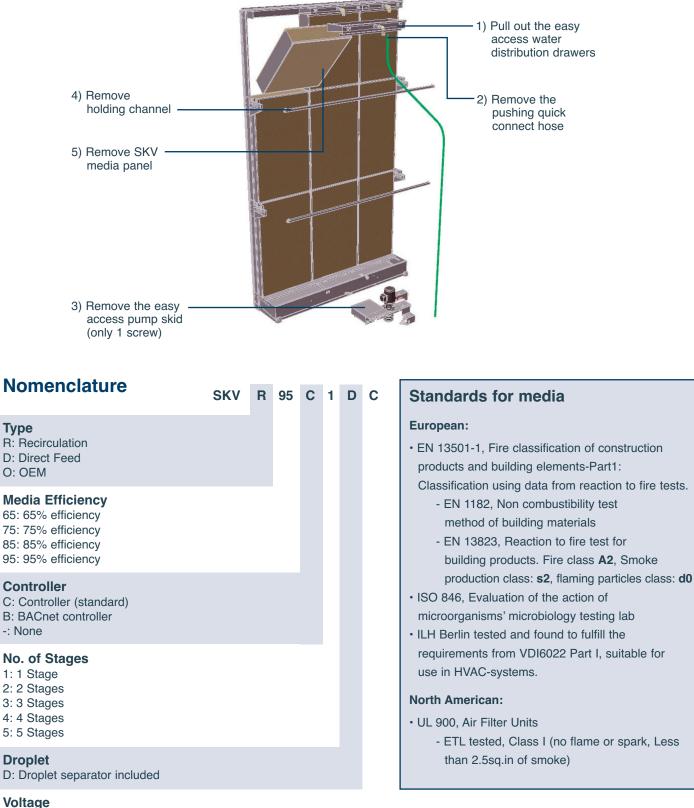
How Silver lons Work

They inhibit the reproduction of the microbe by:



Easy Maintenance

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



A: 120Vac C: 230Vac

Humidisoft Specify your SKV Online





Humidifier System Design and Specification Web Application

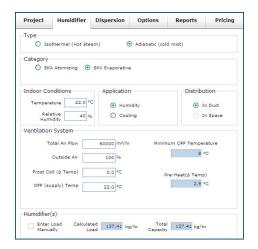
Ready to specify your SKV Humidifier? Neptronic has developed a web application that saves you time when sizing and specifying Neptronic commercial, industrial or residential humdifiers.

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.



Project	Humidifier	Dispersion	Options	Reports	Pricing	
Duct Dime	nsions		System Pressure			
	Width 35	00 mm		Negative		
	Height 30	20 mm		O Positive		
	Height Sol	n n o		OPOSITIVE		
Mixed Conditions		ON Condition	ns	OFF Conditions		
Temperatu	re 24 °C	Temperature	26.9 °C	Temperature	22 %	
Relativ		Relative	21 %	Relative	40 %	
Humidi	ty 23 %	Humidity	21 %	Humidity	40 %	
Humidificat Humic		27 96				
E	fficiency	\$7 70				
Face Velocity 2.5		.5 m/s				
Dispersion						
Model		Dimension (v	Dimension (width x height)		Pressure Drop	
SKV SKV Evaporative		3000mm ×	3000mm × 2750mm 30Pa			
				Total: 30Pa		

Humidifier Product Line



ENGINEERED TO LAST



SK300

- Capacities from 6 270 lb/hr
- Permanent cleanable chamber
- Outdoor enclosure available





SKR

- Capacities from 4.5 12 lb/hr
- Permanent cleanable chamber

EVAPORATIVE

Reliable Siphon drain



SKG3000

- Capacities from 110 810 lb/hr
- Modular design
- > Outdoor enclosure available

STEAM TO STEAM



SKS

- Capacities from 33 1250 lb/hr
- Scale management system
- Insulated external panels

HIGH PRESSURE ATOMIZER



SKH

- Capacities up to 2600 lb/hr
- > Up to 32 zones
- Installation In-duct or In-space



SKV

- ▶ Free cooling up to 12 °C (22 °F) Custom design to fit your
- application Hygienic operation with
- PureFlo Ag+ dosing system

STEAM DISTRIBUTION



Distribution Multi-Steam distribution S.A.M & S.A.M.E2 wands SDU (Space distribution unit)





Controls Humidity controls / sensors Safety controls

BACnet compatible



SKD

- Capacities from 7 1157 lb/hr
- Jacketed or Multi-Steam Type Unique Electronic Steam
- Controller