

SKV EVAPORATIVE

HUMIDITY
SOLUTIONS
Independently better

EVAPORATIVE HUMIDIFIER

With the SKV evaporative humidifier, water is supplied to the top of the evaporative module and flows down the wet media. Warm dry air passes through the wet media evaporating the water, thereby raising the humidity level.

SKV Advantages

- Very low machine 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
- Fully ETL approved

System Overview

Inorganic Fibreglass Media

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

Circulation Pump

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

Drain Pump

Fast and reliable pump that lifts and re-circulates the drained water.

Parametric Design

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

Water Distribution Drawer

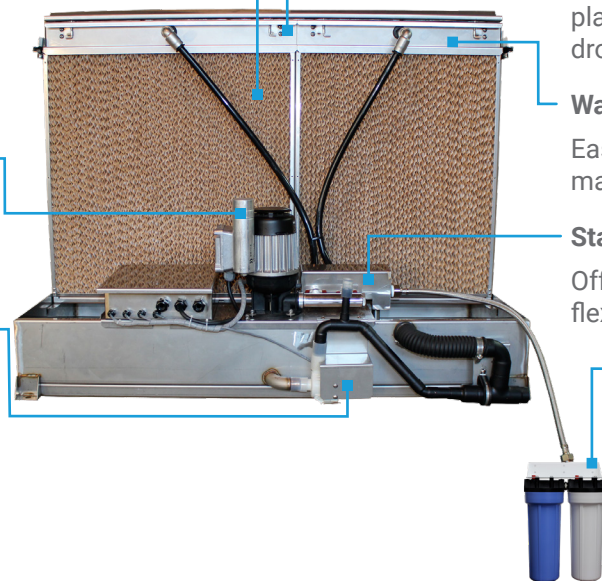
Easy to remove for cleaning and maintenance.

Staging Valves

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

Silver Ion Cartridge

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



SKV 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 enclosure for outdoor installations



Specifications

Nomenclature SKV R 95 C 1 D C

Type

R: Recirculation
D: Direct Feed
O: OEM

Media Efficiency

65: 65% Efficiency
75: 75% Efficiency
85: 85% Efficiency
95: 95% Efficiency

Controller

C: Controller (standard)
B: BACnet controller
-: None

No. of Stages

1: 1 Stage
2: 2 Stages
3: 3 Stages
4: 4 Stages
5: 5 Stages

Droplet

D: Droplet separator included

Voltage

C: 230Vac

Standards for media

European:

- EN 13501-1, Fire classification of construction products and building elements - **Part 1: Classification using data from reaction to fire tests**
 - EN 1182, Non combustibility test method of building materials
 - EN 13823, Reaction to fire test for building products. Fire class: **A2**; Smoke production class: **s2**; flaming particles class: **d0**
- ISO 846, Evaluation of the action of microorganisms' microbiology testing lab
- ILH Berlin tested and found to fulfill the requirements from VDI6022 Part 1, suitable for use in HVAC systems.

North American:

- UL 900, Air Filter Units
- ETL tested, Class I (no flame or spark, less than 2.5 sq.in of smoke)

Hygienic and Safe

SKV Media Panels

- Inorganic and inflammable material
- Trouble free maintenance
- No water treatment required
- No risk of over saturation
- Media frame made of stainless steel
- Media easily removable from stainless steel frame

