SKR RESIDENTIAL HUMIDIFIER







Humidifying your home with a Neptronic SKR residential steam humidifier will help protect your body from winter illness and reduce dry skin, sinus problems and scratchy throats, therefore creating a healthier, more comfortable living environment. Proper humidity levels also protect valuables from permanent damage.

SKR Advantages

The SKR residential humidifier generates mineral free, odorless, sterile steam without the replacement cost associated with electrode cylinders.

- Permanent cleanable stainless steel evaporation chamber
- Patented siphon drain requires no drain valve or external tap
- ▶ Environment friendly no plastic cylinders to replace
- On/Off operation, modulation optional

- ▶ Capacities from 3 to 5 kg/hr
- Drain water tempered to below 60°C
- Self cleaning heating elements

Typical Applications

The SKR residential steam humidifier is the ultimate solution for applications to improve indoor air quality and to protect valuable items for residential and light commercial applications such as:

▶ Houses

Condominiums

> Small Offices

Humidors

Server Rooms





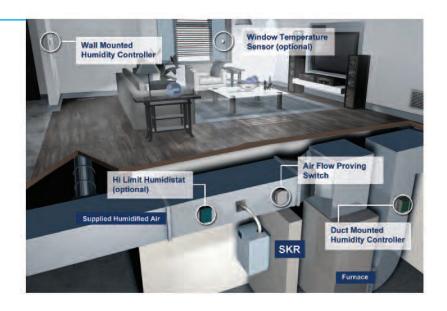


Typical Installation

The SKR humidifier is typically installed through a duct with a dispersion tube. However, we offer fan distribution installations as well for applications where a duct system is not available.

The SKR includes:

- ▶ 1 On/Off humidifier complete with:
 - 1 remote alarm dry contact
 - 1 dry contact to start the HVAC fan on a call for humidity
- 1 S.A.M. stream absorption manifold for duct distribution
- 1.8m flexible steam hose for steam distribution



System Overview

Intelligent Controller -

- Manages control sequences and performs self diagnostics
- On/Off or modulating control functions
- LED status display



High Voltage Quick Connect

Safe, fast and easy connection and reconnection of line voltage.

Water Level Sensors

Conductive water level sensors for normal operation level and drain level.

Patented Siphon Drain

Eliminates the use of a physical device such as a drain valve or external P trap to drain water.

Water fill valve

Evaporation Chamber

Permanent, easily serviceable, stainless steel chamber. No need to replace expensive plastic bottles.

Heater Element -

Self-cleaning electric heater element

Internal Plumbing Assembly

Evaporation Chamber

Evaporate water, not money!

The Neptronic SKR humidifier includes a permanent, reusable stainless steel chamber instead of a disposable plastic bottle that must be replaced at least once a year, resulting in thousands of dollars of savings. These savings will more than pay for the initial cost of the humidifier.



Specifications

Model	Capacity	Power	Voltage	Amperage	Width	Height	Depth	Height with SDU
VILLA SKR3E	3 kg/hr	2.3 kW	230Vac / 1ph	10 A	267mm	368mm	229mm	500mm
CHATEAU SKR4E	3.75 kg/hr	2.8 kW	230Vac / 1ph	12.2 A	267mm	368mm	229mm	500mm
BELVEDERE SKR5E	5 kg/hr	3.7 kW	230Vac / 1ph	16.1 A	267mm	368mm	229mm	500mm

^{*}Operation with maximum 125Pa duct static pressure at steam distribution manifold location.

Duct Distribution Installation

For a duct distribution installation, the SKR unit requires a S.A.M. steam distribution system to disperse steam.



S.A.M.

- ▶ Short absorption distance (less than 155cm)
- ▶ Stainless steel tube with brass nozzles
- Nozzles prevent condensate from escaping the duct
- Inclined steam dispersion tube to return condensate back to humidifier or steam trap



S.A.M.: For models SKR4E and SKR5E



S.A.M.E2: For models SKR3E

Fan Distribution Installations

The fan distribution installation option is ideal to supply steam directly with an SDU (steam distribution unit) into a room without a duct network or for a localized area.

Common Features of SDU

- Quiet steam distribution
- Powered and controlled by the humidifier
- Air pressure switch included
- ▶ Fan will keep running for four minutes after steam production has stopped to prevent any condensation

■ Integrated SDU

This option is typically used in small stores, small warehouses and laboratories where the visibility of the unit is not an issue.



Remote SDU

Ideal for condos / apartments without a duct network, the remote SDU is designed for through-the-wall installation to provide humidification directly into the room. This option is typically applied in residential applications and small offices to keep the elegance of the room.

Features

- Distribution unit is installed through a wall partition
- SKR humidifier is installed in a closet or other closed location
- ▶ Modern design of SDU front grill blends into any decor
- Low noise (less than 40dBA at 1m)
- Standard, 230Vac power supply



Humidisoft

Specify your SKR Online





Humidifier System Design and Specification Web Application

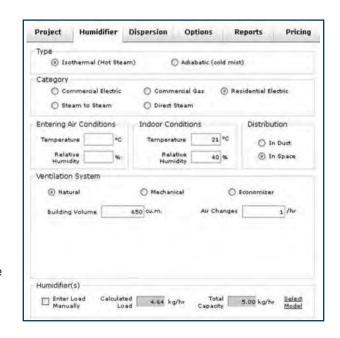
Ready to specify your SKR Humidifier? Neptronic has developed a web application that saves you time when sizing and specifying Neptronic commercial, industrial or residential humidifiers.

Features

- Automatic humidification load calculation
- Web based
- ▶ Report Generator
- Display Absorption Distance
- ▶ Steam Dispersion Selection
- Humidifier Options
- ▶ Project Management

Easy to Use

Once you have registered for an online account. You can start creating projects and create your very own humidifier virtually with all the available features with ease.





Humidifier Product Line









Electric

SKE4



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

Residential



SKR

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



- Capacities from 2 525 kg/hr Jacketed or Multi-Steam™ SD/HD
- · Unique electronic steam controller
- · Optional pressurized condensate return (PCR) system

Gas Fired



- · Capacities from 50 400 kg/hr
- · Modular design

SKG4

· 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



- 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



- · 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



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