SKR RESIDENTIAL HUMIDIFIER





Humidifying your home with a Neptronic SKR residential steam humidifier protects you from winter ailments. It reduces dry skin, sinus problems and scratchy throats by creating a healthier, more comfortable living environment. Proper humidity levels also protect valuables from permanent damage.

Advantages

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

- · Steam capacity from 2 to 5.4kg/hr
- 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
- 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:

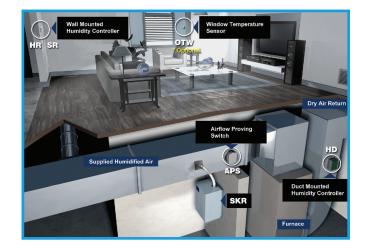


Typical Installation

The SKR humidifier is typically used with a dispersion tube installed through a duct. 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 manifol for duct distribution
- 6' (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

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

Heating Element Self-cleaning, electric heater elements

Internal Plumbing Assembly



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

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.



Output and Consumption

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

Note: Operation with maximum 125Pa duct static pressure at steam distribution manifold location

Duct Distribution Installation

For a duct distribution installation, the SKR requires a S.A.M. Steam Distribution System to disperse steam.



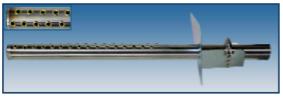
S.A.M.

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.

- Short absorption distance (less than 155 cm)
- · 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

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





Specify your SKR 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
- Web based
- Report generator
- Display absorption distance
- Steam dispersion selection
- · Humidifier options
- Project management

| Project | Humidifier | Dispersion | Options | Reports | Pricing |
|---|--|------------------------------------|---------------------------|---|------------------------|
| Type Isoth | nermal (Hot Steam |) (|) Adiabatic (cold | mist) | |
| | mercial Electric SK mercial Electric SK | 0 | nercial Gas n to Steam | Residential Ele Direct Steam | ectric |
| – Entering Air Temperatu Relativ Humidit | re 15.6 °C | | | | ion Duct Space |
| - Ventilation S Natu | ral | Mechan 15873 m ³ /hr | ical Outsic | Economizer | 00 % |
| | | | | | |
| - Humidifier(s | ad Enter | | /hr Total Capacity | | <u>Select</u> Model |

Easy to Use

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

| Project | Humidifier | Dispersion | Options | Reports | Pricing |
|----------------------------|------------|------------|---------|---------|---------|
| SDU | | | | | |
| O None | | | | | |
| 🔘 On Unit | | | | | |
| Remote | | | | | |
| | | | | | |

Humidifier Product Line





Gas Fired

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



High Pressure Atomizer

- Capacities up to 2100 kg/hr
- Up to 3 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

- Capacities from 8 570 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

Controls



Humidity Controls

- Humidity controls/sensors
- Safety controls
- BACnet compatible

