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

- Steam capacity from 4.5 to 12lbs/hr (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 140°F (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





Humidors

Server Rooms









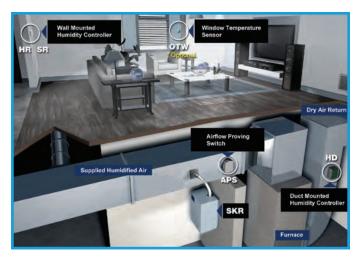


Typical Installation

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.



Specifications

Output and Consumption

Model	Capacity	Power (kW)	Amperage			\A/: al+la	Hoight	Donth	Height
			120V	208V	240V	Width	Height	Depth	with SDU
SKR14	4.5 lb/hr 2.0 kg/hr	1.4	12A	-	-	10.5" 267mm	14.5" 368mm	9" 229mm	19.75" 500mm
SKR25	7.5 lb/hr 3.4 kg/hr	2.5	-	12A	11A	10.5" 267mm	14.5" 368mm	9" 229mm	19.75" 500mm
SKR30	9 lb/hr 4.1 kg/hr	3	-	14.5A	13A	10.5" 267mm	14.5" 368mm	9" 229mm	19.75" 500mm
SKR40	12 lb/hr 5.4 kg/hr	4	-	19.2A	17A	10.5" 267mm	14.5" 368mm	9" 229mm	19.75" 500mm

Note: Operation with maximum 0.5" (125Pa) duct static pressure at steam distribution manifold location.

In-duct distribution

For a duct distribution installation, the SKR requires a SAM Steam Distribution System.



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 5 feet or 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 SKR30 and SKR40



S.A.M.E2: For models SKR14 and SKR25

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 (Space Distribution Unit)

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



Remote SDU (Space Distribution Unit)

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.

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, 120Vac 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
- · 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.



Humidifier Product Line









Electric

SKE4



- · Capacities from 6 300 lb/hr
- · Remove chamber easily, without
- · Outdoor unit available

Residential



SKR

- Capacities from 4.5 12 lb/hr
- · Permanent cleanable chamber
- · Reliable siphon drain
- Direct Steam **SKD**
- · Capacities from 5 1650lb/hr
- Jacketed or Multi-Steam[™] SD/HD
- Unique electronic steam controller
- · Optional pressurized condensate return (PCR) system

Gas Fired



- · Capacities from 110 810 lb/hr
- Modular design

SKG4

• Outdoor unit available

■ High Pressure Atomizer



SKH

- Capacities up to 4638 lb/hr
- Up to 10 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 33 1250 lb/hr
- Scale management system for easy maintenance
- Insulated external panels

Evaporative

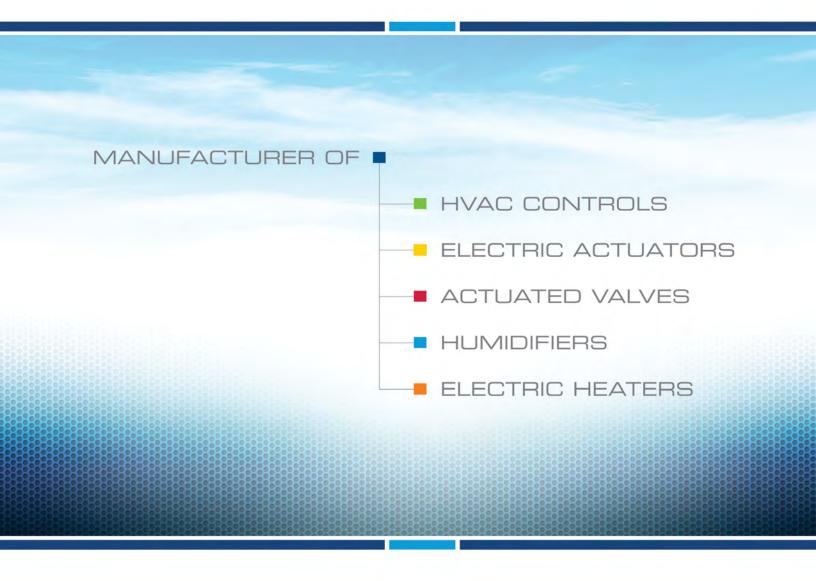


- Free cooling up to 22°F (12°C)
- · Custom design to fit your application
- Hygienic operation with silver ion dosing system

Humidity Controls



- **Controls**
- Humidity controls/sensors
- Safety controls
- BACnet compatible



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