## SKR RESIDENTIAL HUMIDIFIER





# SKR ELECTRIC 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:

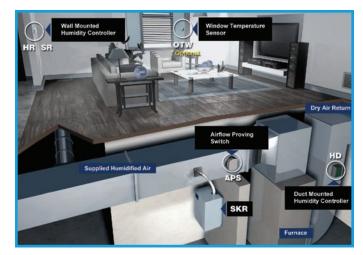


## **Typical Installation**

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



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## **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.



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## **Output and Consumption**

Madal	Oonooitu	Power		Amperage		\ <b>\</b> /; alt  a	Lloight	Danth	Height
Model	Capacity	(kW)	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

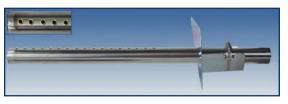
For a duct distribution installation, the SKR requires a SAM Steam Distribution System.



### 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.E2: For models SKR14 and SKR25

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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

Project	Humidifier	Dispersion	Options	Report	s Pricing
Type Iso		am)	O Adiabatic (C	cold Mist)	
Category					
O Cor	mmercial Electic	SKV Evapor	ative 💿 P	Residential Elect	ric
O Ste	eam to Steam	O Direct Steam	n		
Entering Ai	ir Conditions	Indoor Co	onditions	Dist	tribution
Tempera	ature	°C Temp	perature	70 °F	In Duct
	lative nidity		Relative	40 %	In Space
Ventilation	System				
• Nat	tural	O Mechar	nical	O Econo	mizer
Built	ding Volume	16000 cu.ft.	Ai	r Changes	1 /hr
	1.C			13 <sup>4</sup>	
Humidifier	r(s)				
- Enter	Load Calcu	lated 7.17	T	Total 7.5	lb/br

## 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
SDU					
O None					
-					
On Unit					

## **Humidifier Product Line**



