

SKR

Residential Humidifier *Patent Siphon System*



neptronic[®]
www.neptronic.com

SKR

Residential Humidifier Patent

A high quality humidifier
at home is not a luxury,
but a necessity!



We spend a significant part of our daily life at home. Therefore, our **health** and **comfort** greatly depend upon the environmental conditions within our residences. One of the most important of these conditions is humidity.

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.

In a home with a dry environment, hardwood floors, antique furniture, works of art, etc., may crack, warp or peel. Proper humidity levels prevent these problems and **protect** these valuables from permanent damage. Humidity control also **eliminates static electricity**, which causes annoying shocks and can damage VCR's, computers and other expensive electronic devices.

Warm dry air cools the skin surface, making a room feel cold. The natural reaction is to “turn up the thermostat”, when in fact, the solution is to humidify the air.

Increasing the humidity level in a home makes the air feel warmer at lower temperatures. The result is a warmer and more comfortable environment at a lower **money saving** temperature!

A state-of-the-art humidifier improves indoor air quality, enhances a family's health and comfort while protecting valuable objects in a home!

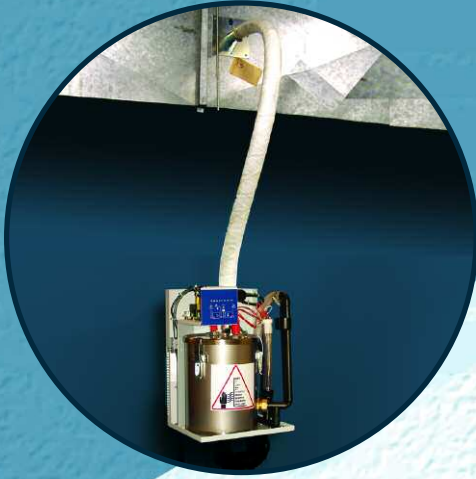


Neptronic SKR humidifiers offer two installation options to better suit your needs.

(Photos show humidifiers without covers)

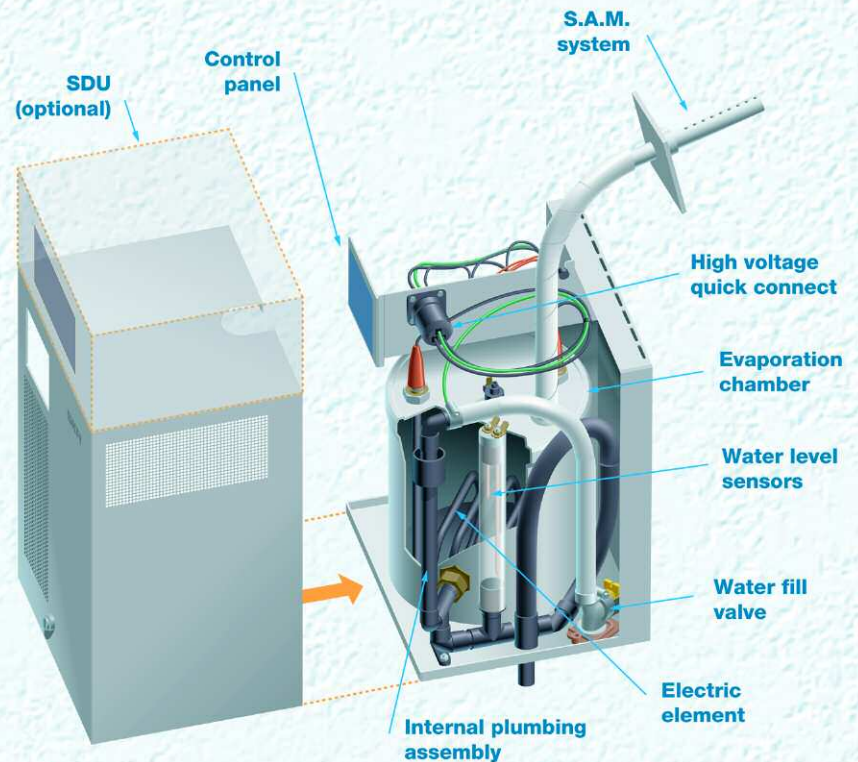
Fan Distribution (SDU)

Duct Distribution



Evaporate water, not money!

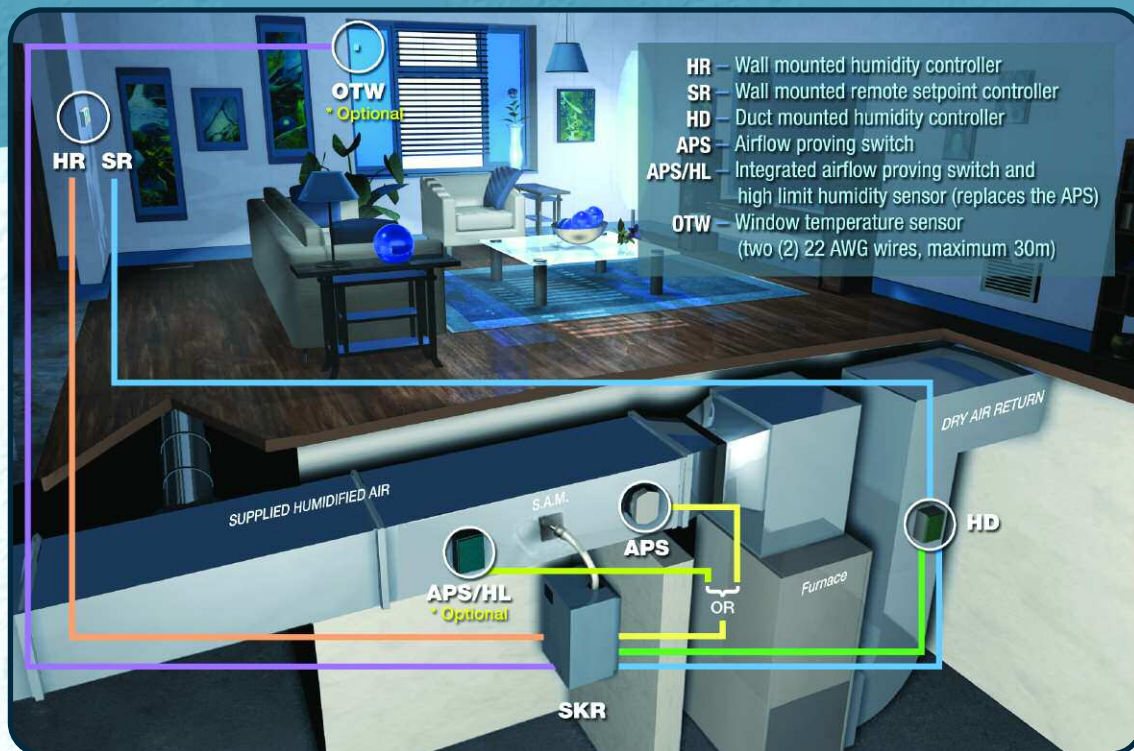
The **Neptronic SKR** humidifier includes a permanent, reusable stainless steel chamber instead of a disposable plastic bottle that must be replaced at least once a year, resulting in thousands of dollars of savings. These savings will more than pay for the initial cost of the humidifier.



Technical Information

NEPTRONIC SKR HUMIDIFIER SPECIFICATIONS			
MODEL	VILLA SKR3E	CHATEAU SKR4E	BELVEDERE SK5E
CAPACITY	3 kg/hr	3.75 kg/hr	5 kg/hr
POWER	2.3 kW	2.8 kW	3.7 kW
VOLTAGE	230V / 1ph	230V / 1ph	230V / 1ph
AMPERAGE	10 A	12.2 A	16.1 A
WIDTH	267mm	267mm	267mm
HEIGHT	368mm	368mm	368mm
DEPTH	229mm	229mm	229mm
HEIGHT with SDU	500mm	500mm	500mm

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



- HR – Wall mounted humidity controller
- SR – Wall mounted remote setpoint controller
- HD – Duct mounted humidity controller
- APS – Airflow proving switch
- APS/HL – Integrated airflow proving switch and high limit humidity sensor (replaces the APS)
- OTW – Window temperature sensor (two (2) 22 AWG wires, maximum 30m)

Sample order number

Neutronic SKR Selection Guide

SKR **3E - ROW**

- 3E:** 2.3 kW, 3 kg/hr, 230VAC/1ph/50Hz only (VILLA)
- 4E:** 2.8 kW, 3.75 kg/hr, 230VAC/1ph/50Hz only (CHATEAU)
- 5E:** 3.7 kW, 5 kg/hr, 230VAC/1ph/50Hz only (BELVEDERE)
- 3ESDU:** 2.3 kW, 3 kg/hr, 230VAC/1ph/50Hz with SDU (VILLA)
- 4ESDU:** 2.8 kW, 3.75 kg/hr, 230VAC/1ph/50Hz with SDU (CHATEAU)
- 5ESDU:** 3.7 kW, 5 kg/hr, 230VAC/1ph/50Hz with SDU (BELVEDERE)

- KIT "R"** - Wall mounted humidity controller with setpoint adjustment
- KIT "D"** - Duct mounted humidity controller with setpoint adjustment

- Airflow proving switch
- Airflow proving switch

- KIT "S"** - Duct mounted humidity controller
- Wall mounted controller for remote setpoint adjustment
- Airflow proving switch
- One (1) 3m pre-assembled control cable with telephone jacks (to connect the duct mounted humidity controller to the humidifier)

- KIT "N"** - Two terminal blocks to replace the jack connectors. No controllers, no cables, no airflow proving switch. I and W options not available.

- O** - No option selected
- I** - Integrated airflow proving switch and high limit duct humidistat to replace the airflow proving switch
- O** - No option selected
- W** - OTW temperature sensor. Installed on the interior side of a windowpane and wired to the humidifier to prevent fogging on windows. (Cables by others)

All kits include:

- One (1) On/Off humidifier complete with:
 - One (1) remote alarm dry contact (1Amp/24VAC)
 - One (1) dry contact (3Amp/24VAC) to start the HVAC fan on a call for humidity
- One (1) SAM steam distribution manifold
 - 229mm long 22mm diameter for VILLA SKR3E units
 - 356mm long 35mm diameter for CHATEAU SKR4E and BELVEDERE SKR5E units
- 1.8 m flexible steam hose to connect to steam distribution manifold
- Two (2) pre-assembled control cables with telephone jacks (One (1) 15m and one (1) 3m) for R, D and S kits only

Kits for SDU include:

- One (1) On/Off humidifier complete with:
 - One (1) remote alarm dry contact (1Amp/24VAC)
- One (1) pre-assembled control cable with telephone jacks (One 3m) for R kits only

The state-of-the-art **Neptronic SKR** humidifier improves indoor air quality, enhances your family's health and comfort while protecting the valuable items in your home!



Modern Design and Advanced Technologies

Features of the SKR

- Capacities from 4.5 to 12lb/hr (2 to 5.5kg/hr) of steam
- On/Off operation, modulation optional
- Permanent cleanable stainless steel evaporation chamber
- Self-cleaning elements
- Siphon drain requires no drain valve or external tap
- Simple control wiring using pre-assembled cables with telephone jacks
- Easy to install, operate and maintain
- No expensive plastic cylinders to buy
- Environmentally friendly - no plastic cylinders to throw away
- No more blocked drain solenoid valves
- Drain water tempered to below 140°F (60°C)
- Generates pure and sterile steam



SKR Control Panel Display

Using the factory assembled telephone cables with jacks eliminates control wiring errors. Features and components found in our patented SK-300 series "commercial humidifiers" have been incorporated in the **Neptronic SKR** to provide the most dependable humidifier system on the market. The steam can be supplied into the duct with a dispersion tube or directly into the room with a fan distribution unit (SDU).

NEPTRONIC'S FAMILY OF HUMIDIFIERS



SKE
ELECTRIC HUMIDIFIER



SKR
RESIDENTIAL HUMIDIFIER



SKGE3
GAS HUMIDIFIER



SKS
STEAM TO STEAM



SKSI
DIRECT STEAM



HUMIDISOFT

Saves you time when sizing and specifying commercial, industrial or residential humidifiers.

- Calculates required humidification load
- Selects humidifier model and available options
- Indicates non-wetting absorption distance
- Complete steam dispersion manifold design tool
- Creates equipment schedule and specifications
- Generates approval specification sheet
- Saves project history in a data base

EASY-TO-USE!

distributed by:



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www.neptronic.com

Member of
BACnet
International

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