Humidifier Product Catalogue





Since 1976, Neptronic has been committed to advancing our products by utilizing all that technology has to offer. Our commitment to quality is the foundation of every stage in our process. We build from the ground up, beginning with a thorough exploration of the most current ideas, and deliver a product that's engineered to perform. Neptronic's focus on integration across the board means that we can deliver a system suited to your exact needs.

The importance of humidification in our daily lives cannot be understated. Humidification is an essential component in maintaining ideal climate conditions for a variety of applications: the production of sensitive electronics that require environments completely free of dust and particulates; careful control of sterile conditions in a hospital's surgical suites; preservation of priceless manuscripts and artworks in museums, or your personal comfort at home and in the office. Neptronic's complete humidifier series with integrated controllers equipped with BACnet or Modbus will fulfill whatever your situation requires.

Demand the best. We do.



Humidifier Product Line



SKE4 + electric

RESISTIVE ELECTRIC STEAM HUMIDIFIER

The resistive heating elements of the SKE4 convert electrical energy to heat energy that is then transmitted to the surrounding water, raising the temperature to its boiling point, creating steam. The process allows mineralfree, odorless, sterile steam to be generated quickly with any water condition.

BACnet Modbus

LONMARK* CE

SKE4 Advantages

- Capacities from 6-300 lb/hr (2.7-136 kg/hr)
- Separate plumbing, controls, and high-voltage sections
- Remove the stainless steel evaporation chamber with ease

OSHPD

- Patent-pending water level detection system using 2 sensor technologies
- Drain water tempered to below 140°F (60°C)

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- Patented Anti-Foaming Energy Conservation (AFEC) System
- Available with BACnet MS/TP or Modbus communication interface
- · Optional ethernet module for BACnet IP or Modbus IP, and Web services
- · Independent scheduling system for unit operation and drain cycle



System Overview

*All Silicone Piping

- * Alternate piping available

Manual Drain

Functions even without power

Specifications



In-Duct Distribution

For Multi-Steam[™] SD/HD and SAM in-duct distribution systems, refer to page 17.

SDU (Space Distribution Unit)

- Quiet operation
- No condensation
- Local or remote in-room steam distribution
- 3 models available (SDU4-1, SDU4-2, and SDU4-3)

Outdoor unit

- · Fully insulated and constructed from heavy-duty steel
- Stainless steel bottom drip pan
- Zinc primer and polyurethane powder coating for resistance against scratches and corrosion on the exterior and interior surfaces
- · Built-in anti-freeze and overheat protection
- · Easy installation on a roof curb, stand or slab
- Connection can be made from side or bottom of unit for flexibility in any configuration





For Models SKE4-N02 to SKE4-N30



SKE4 + electric

Output and Consumption

	Steam		Consumption Steam Output						utput				
Model	Capacity Ib/hr [kg/hr]	Power (kW)	120/1	240/1	208/1	Ampo 208/3	erage 480/1	480/3	600/1	600/3	Qty	Diameter inches [mm]	Space Distribution Unit (SDU)
SKE4-N02	6 [2.7]	2	17	8.5	10	-	4.5	-	3.5	-	1	1 ³/8 [35]	SDU4-1
SKE4-N04	12 [5.5]	4	-	17	19	11.5	8.5	5	7	4	1	1 ³/8 [35]	SDU4-1
SKE4-N06	18 [8]	6	-	26	30	16.5	13	7.2	10.5	6	1	1 ³/8 [35]	SDU4-1
SKE4-N10	30 [14]	10	-	-	-	28	-	12	-	10	1	1 ³/8 [35]	SDU4-2
SKE4-N14	40 [19]	13.5	-	-	-	38	-	16.5	-	13.5	1	1 ³/8 [35]	SDU4-2
SKE4-N16	48 [21.8]	16	-	-	-	45	-	-	-	16	1	2 [51]	SDU4-3
SKE4-N20	60 [28]	20	-	-	-	-	-	25	-	20	1	2 [51]	SDU4-3
SKE4-N30	90 [41]	30	-	-	-	-	-	36	-	30	1	2 [51]	SDU4-3
SKE4-N20 L	60 [28]	20	-	-	-	56	-	-	-	-	1	3 [76]	-
SKE4-N40	120 [56]	40	-	-	-	-	-	50	-	40	1	3 [76]	-
SKE4-N50	150 [68]	50	-	-	-	-	-	60	-	50	1	3 [76]	-
SKE4-N60	180 [82]	60	-	-	-	-	-	72	-	60	1	3 [76]	-
SKE4-N30X	90 [41]	30	-	-	-	83.4	-	-	-	-	1	3 [76]	-
SKE4-N40X	120 [56]	40	-	-	-	111	-	-	-	-	1	3 [76]	-
SKE4-N70	210 [95]	70	-	-	-	-	-	84	-	70	1	3 [76]	-
SKE4-N80	240 [108]	80	-	-	-	-	-	96	-	81	2	3 [76]	-
SKE4-N90	270 [122]	90	-	-	-	-	-	109	-	91	2	3 [76]	-
SKE4-N100	300 [136]	100	-	-	-	-	-	120	-	96	2	3 [76]	-

Note: Designate the letter M for modulating units (i.e.: SKE4-N20M)



Integrated, Multi-Platform Controller

The SK Controller is configured specifically for your SKE4, SKG4 or SKS4 Humidifier.

- User-friendly interface consisting of a menu driven 128 x 64 LCD with 8 function buttons for faster configuration and operation
- User rights management allows for menu to display only functions available to the category of user logged in
- Quick Config menu allows for faster and easier installation, by displaying only the most commonly used functions and configurations
- Independent scheduling system for unit operation and drain cycle, configurable via the menu or the BACnet communication interface
- In-field firmware upgradeable via SD card, USB or BACnet
- Simple viewing and exporting of trending log and alarm log



One controller, one menu across humidifier types provides consistency and ease of use.







Optional Features:

- The selectable BACnet MS/TP or Modbus communication interface allows access to over 75 objects/registers for integration with a BMS and IoT (Internet of Things)
- Ethernet Module
 - o BACnet IP or Modbus IP
 - o Web services make it possible to perform humidifier configurations, remote diagnostics and many more functions from any location



LONMARK®



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.

SKR Advantages

- Steam capacity from 4.5 to 12 lbs/hr (2 to 5.4 kg/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

System Overview



Specifications

Output and Consumption

Model	Conceity	Power		Amperage		Width	Lloight	Denth	Height	
woder	Capacity	(kW)	120V	120V 208V		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 (see page 17).

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

SKG & gas fired

GAS FIRED HUMIDIFIER

The SKG4 gas fired humidifier generates mineral free, odorless, sterile steam by using the power of natural gas or propane. Cost of operation and its carbon footprint is much lower than electric humidifiers with equivalent control accuracy.

SKG4 Advantages

- Steam capacity from 110 to 810 lbs/hr (50 to 370 kg/hr)
- Turn down ratio of 10:1 (minimum) up to 40:1 (maximum)
- Functions with Tap, RO or DI water
- Combustion efficiency: 83% to 87%
- For Multi-Steam and SAM in-duct distribution systems, refer to page 17
- · Easy servicing: clean and re-install within minutes



- Smallest footprint in the industry
- Patented Anti-Foaming Energy Conservation
 (AFEC) System
- Advanced controller with multiple connectivity options (see page 7)
- Waste water drained below 140°F (60°C)
- Self-adjusting burner for altitude compensation

System Overview



Output and Consumption

Model	No. of Modules	Steam Capacity (lb/hr) [kg/hr]	Input Capacity (btu/hr)[kW]	Current at 120Vac (A)	Current at 208Vac (A)	Current at 240Vac (A)	No. of Outlets	Multi-Steam header diam. in [mm]
SKG4-N1101 N/P	1	110 [50]	165,000 [49]	6.0	3.5	3.0	1	3" [76]
SKG4-N1551 N/P	1	155 [70]	215,000 [63]	6.0	3.5	3.0	1	3" [76]
SKG4-N1801 N/P	1	180 [80]	240,000 [70]	6.0	3.5	3.0	1	3" [76]
SKG4-N2101 N/P	1	210 [95]	249,000 [73]	6.0	3.5	3.0	1	3" [76]
SKG4-N2652 N/P	2	265 [120]	380,000 [112]	9.0	5.2	4.5	2	4" [100]
SKG4-N3102 N/P	2	310 [140]	430,000 [126]	9.0	5.2	4.5	2	4" [100]
SKG4-N3502 N/P	2	350 [160]	464,000 [136]	9.0	5.2	4.5	2	4" [100]
SKG4-N4052 N/P	2	405 [185]	498,000 [146]	9.0	5.2	4.5	2	4" [100]
SKG4-N5053 N/P	3	505 [230]	704,000 [206]	12.0	7.0	6.0	3	5" [125]
SKG4-N5603 N/P	3	560 [255]	713,000 [209]	12.0	7.0	6.0	3	5" [125]
SKG4-N6103 N/P	3	610 [275]	747,000 [219]	12.0	7.0	6.0	3	5" [125]
SKG4-N7104 N/P	4	710 [320]	953,000 [279]	15.0	8.7	7.5	4	(2x) 4" [100]
SKG4-N7654 N/P	4	765 [345]	962,000 [282]	15.0	8.7	7.5	4	(2x) 4" [100]
SKG4-N8104 N/P	4	810 [370]	996,000 [292]	15.0	8.7	7.5	4	(2x) 4" [100]

Outdoor Unit

- Hinged doors provide full access (serviceability) from the front, back and top of unit
- Fully insulated and constructed from heavy duty steel
- Stainless steel bottom drip pan
- Zinc primer and polyurethane powder coating for resistance against scratches and corrosion
- · Built-in anti-freeze and overheat protection
- · Easy installation on a roof curb, stand or slab
- · Connection can be made from side or through the roof curb

Modular Design

Flexible Solution for Indoor/Outdoor Applications

Modular design offers flexibility and convenience; each module adds up to 210 lbs/hr (100 kg/hr) of steam capacity. With the smallest footprint in the industry, the SKG4 module can be easily installed and assembled on site when access is limited. Module assembly can be arranged in line, in an L shape, or back to back to accommodate any specific space conditions. Feed water, gas, water drain and flue connections can be located on either side of the enclosure.





SKS4 # steam to steam

STEAM TO STEAM HUMIDIFIER

The SKS4 humidifier provides chemical free steam by using an on-site central boiler or steam generating station as a heat source. The raw steam under pressure from the boiler provides the energy to produce clean steam through a heat exchanger.

SKS4 Advantages

- Capacities from 17 to 1250 lbs/hr (8 to 570 kg/hr) of steam
- Stainless steel (for raw steam) heat exchangers
- Comprehensive scale management system
- · Ease of servicing: clean and re-install within minutes
- Patent-pending water level detection system using 2 sensor technologies
- Uses either domestic, RO or DI water

System Overview

Heat Exchanger

Raw steam passes through the heat exchanger, thus providing the energy to produce clean steam. Made with 316 stainless steel for 5 - 15 psig steam.

Evaporation Chamber

The 304 stainless steel evaporation chamber is equipped with handles for easy removal without any tools.

Steam Outlet -

Insulated Cabinet

The fully enclosed steel, powder-painted cabinet with 1" (25mm) thick insulation eliminates accidental contact with hot surfaces and saves energy.

Scale Trap Trays

These trays can be accessed from the top of the unit, allowing for easy maintenance and scale removal.

Floor Stand

Adjustable legs ensure proper level when installed directly on the floor.



- For Multi-Steam and SAM in-duct distribution systems, refer to page 17
- Available with BACnet MS/TP or Modbus communication

••• BACnet

- Optional ethernet module for BACnet IP or Modbus IP, and web services
- Patented Anti-Foaming Energy Conservation (AFEC) System
- Drain water tempered to below 140°F (60°C)

Built-in Controller

- Intuitive menu-driven user
 interface
- User rights management
- Quick config menu
- Multiple connectivity options
- See page 7 for more details

Patent-Pending Water Level Detection System

- Self-cleaning and selfcalibrating sensors
- Utilizes 2 different sensor technologies
- Precise and reliable water level detection
- Anti-Foaming Energy Conservation (AFEC) System: drains water when foam is detected
- **Pressurized Steam Supply**
- Disconnect Switch
- Condensate Return
 - Outdoor unit available



Heat Exchanger - SLP Stainless Steel 316 (For Raw Steam)



		Output Steam Capacity Ibs/hr [kg/hr] for Supply Steam Pressure					
Model	5 PSI [34.5 kPa]	8 PSI [55.1 kPa]	10 PSI [68.9 kPa]	12 PSI [82.7 kPa]	15 PSI [103 kPa]	Qty & Ø in [mm]	
SKS4-050-SLP	17 [8]	27 [12]	33 [15]	40 [18]	50 [23]	(1x) 2" [51]	
SKS4-100-SLP	33 [15]	53 [24]	67 [30]	80 [36]	100 [45]	(1x) 3" [76]	
SKS4-130-SLP	43 [19]	69 [31]	87 [39]	104 [47]	130 [59]	(1x) 3" [76]	
SKS4-190-SLP	63 [28]	101 [46]	127 [57]	152 [69]	190 [86]	(1x) 3" [76]	
SKS4-290-SLP	97 [44]	155 [70]	193 [87]	232 [105]	290 [132]	(1x) 4" [100]	
SKS4-390-SLP	130 [59]	208 [94]	260 [118]	312 [142]	390 [177]	(1x) 4" [100]	
SKS4-500-SLP	167 [76]	267 [121]	333 [151]	400 [182]	500 [230]	(1x) 5" [125]	
SKS4-690-SLP	230 [104]	368 [167]	460 [209]	552 [251]	690 [314]	(1x) 5" [125]	
SKS4-950-SLP	317 [144]	507 [230]	633 [287]	760 [345]	950 [432]	(2x) 4" [100]	
SKS4-1250-SLP	417 [189]	667 [303]	833 [378]	1000 [454]	1250 [568]	(2x) 5" [125]	

Self-Cleaning System

Scale Management System

The SKS4 is designed with a comprehensive scale management system. The supply of cold water, located at the sloped bottom of the evaporation chamber, forces the precipitated mineral deposits into baskets that can easily be removed.



Modulating Control

The SKS4 is supplied with a Neptronic linear actuated globe valve, giving full modulation control of low pressure steam. The globe valve is available with either brass or stainless steel trim as an option.





SKD ??? direct steam

DIRECT STEAM INJECTION HUMIDIFIER

The SKD direct steam injection system uses low pressure steam from an in-house boiler (maximum pressure 1 bar/15PSI) to humidify the air.

SKD Advantages

- Custom designed to meet your specific steam capacity and non-wetting distance requirements
- 5 steam distribution configurations: Multi-Steam[™]SD, Multi-Steam[™] HD, or Jacketed (Single Tube, Multi-Tube, or Mini Rack)





- Unique Electronic Steam Controller (ESC) manages the sequence of operation to optimize energy efficiency and prevent condensate ejection
- Optional patent-pending pressurized condensate return (PCR) system. No gravity drain - no maintenance - returns condensate to steam source



Returns condensate to steam source

Specifications

PCR

Pressurized Condensate Return system

The Neptronic Pressurized Condensate Return system (PCR) returns condensate generated within the steam dispersion tubes of a direct steam humidifier back to the steam source, thus eliminating the need for a gravity drain. Presently, the only other available technology is a pressurized steam humidifier with a heat exchanger (or re-evaporator).



Description	Neptronic PCR System (Pressurized Condensate Return)	Competitors Re-evaporators (Internal Heat Exchanger)		
Real-time monitoring	Yes	No		
BMS Integration	BACnet or Modbus	No		
Maintenance	Not required	Systematic verification is a must*		
Cleaning	Not required	De-scaling*		
Downtime	None	During maintenance or when equipment is offline due to fouling*		
Flooding of header	None	Possible due to reduced capacity due to fouling and standard piping configuration		
Accessibility	Outside the duct for easy access	Standard cleaning procedure requires access to the top of header often located in duct (may require duct access by door)*		
Compatibility	Insulated and non-insulated steam distributors and headers	Only insulated steam distributors and headers		
Installation	Lowest clearance with simple and flexible installation due to smaller components	Higher clearance and integral design forces components below duct, resulting in potential ceiling clearance issues		

*See manufacturer's manual for more information

ESC Controller

Unique in the Industry

- Centralized wiring of sensors, valves and humidity controls
- Easy start-up and diagnostics
- Factory pre-configured operating temperature range
- 24 Vac operation
- BACnet or Modbus compatible



SKD

Multi-Steam[™] SD (Non-insulated)

- Lowest capital cost injection system
- · Easiest installation... contractor's favorite
- Header with built-in slope for improved condensate elimination

Multi-Steam[™] HD (Insulated)

- Same as Multi-Steam[™] SD plus: X-Stream[™] Technology (see page 17)
- · Lowest heat transferred to the airstream
- Lowest condensate produced

JACKETED

Single Tube

- For duct installations
- Low capacity applications: 5 170 lb/h (2 77 kg/h)
- Average non-wetting distance

Multi-Tube

- For duct or AHU installations
- Medium to high capacity applications: 5 1650 lb/h (2 - 750 kg/h)
- Short non-wetting distances
- Optional pressurized condensate return (PCR) system

Mini Rack

Same as Multi-Tube, plus:

- Designed for limited space installations such as reduced duct height
- Tubes pre-assembled on header





555

SKR SKE4 SKS4 SKG4 SKD

steam distribution types

S.A.M.

- Short absorption distance (less than 5ft/1500mm)
- Stainless steel tube with brass nozzles
- Nozzles prevent condensate from collecting in the duct
- Inclined steam dispersion tube to return condensate back to humidifier or steam trap

Multi-Steam[™] SD (Non-Insulated)/HD (Insulated)

- For absorption distances of less than 3ft (900mm)
- Custom built for the duct or AHU
- Header with built-in slope for improved condensate elimination
- Brass insertion nozzles (SD), or 304 stainless steel eyelets (HD)
- Completely assembled (HD) or welded (SD) at the factory, or collapsible for in-field assembly

X-Stream[™] Technology (HD Insulated)

- High efficiency insulated steam distributor (channel and header) with steam ejector eyelets
- Double wall 304 stainless steel with encapsulated Armacell
- UT/Solaflex[™] foam insulation
- Specially engineered 304 stainless steel eyelets prevent condensate ejection on start up and any modulating humidity demand

Steam Distribution Applications

Steam Distribution System	SKR /	SKE4 /	SKG4 👌	SKS4 tit	SKD ///
Multi-Steam [™] SD		۰	٥	•	٠
Mult-Steam™ HD		۰	•	۰	٠
S.A.M.	٠	٠			
S.A.M.E2	٠	•	•	•	











SKV E evaporative

EVAPORATIVE HUMIDIFIER

With the SKV evaporative humidifier, water is supplied to the top of the evaporative module and flows down the wet media. Warm dry air passes through the wet media evaporating the water, thereby raising the humidity level.

SKV Advantages

- Very low machine energy consumption (<1kW)
- Hygienic operation
- Environmentally friendly
- Very low maintenance

System Overview

Inorganic Fibreglass Media

Hygienic, fire resistant and incombustible corrugated media, provides exceptional moisture absorption for continuous humidification and evaporative cooling, even at high air velocity.

Circulation Pump -

Robust pump functions with tap or RO water

Drain Pump Fast and reliable pump that

lifts and re-circulates the drained water.

SKV Controller

- Master/slave configuration for up to 4 evaporative modules
- On/Off or modulating control type
- · Real-time clock with flexible scheduler
- · Simple viewing and exporting of trending log and alarm log
- · In-field firmware upgradeable via SD card
- · Easy connection with only one 6-wire control cable
- Stainless steel IP56 rated (equivalent to NEMA type 4) enclosure for outdoor installations



- Free cooling up to 21.5°F (12°C)
- Custom modular design to fit any application
- Low pressure drop
- Fully ETL approved

Parametric Design

Use the Neptronic Humidisoft web application to customize the evaporative module to your exact duct dimensions. This minimizes the need for blanking plates, thus ensuring a lower pressure drop.

Water Distribution Drawer

Easy to remove for cleaning and maintenance.

Staging Valves

Offers up to 5 stages providing very flexible and accurate control.

Silver Ion Cartridge

Water pre-treated with 5µm pre-filter and anti-bacterial silver ions prevent microbial growth.



Specifications

Nomenclature SKV R 95 C 1 D C

Type R: Recirculation D: Direct Feed O: OEM		
Evaporation Factor 65: 65% 75: 75% 85: 85% 95: 95%		
Controller C: Controller (standard) B: BACnet controller -: None		
No. of Stages 1: 1 Stage 2: 2 Stages 3: 3 Stages 4: 4 Stages 5: 5 Stages		
Droplet D: Droplet separator included (when required)		
Voltage		

A: 120Vac C: 230Vac

Standards for media

North American:

• UL 900, Air Filter Units, [Class I (no flame or spark, less than 2.5 sq.in of smoke)]

European:

- EN 13501-1, Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests
 - EN 1182, Non combustibility test method of building meaterials
 - EN 13823, Reaction to fire test for building products. Fire class: A2; Smoke production class: s2; flaming particles class: d0
- ISO 846, Evaluation of the action of microorganisms' microbiology testing lab
- ILH Berlin tested and found to fulfill the requirements from VDI6022 Part 1, suitable for use in HVAC systems

teel frame factors

4 Evaporation



Hygienic and Safe

SKV Media Panels

- Inorganic and inflammable material
- Trouble free maintenance
- No water treatment required
- No risk of over saturation
- Media frame made of stainless steel
- Media easily removable from stainless steel frame

SKH O high presssure atomizer

ATOMIZING HUMIDIFIER

The SKH pumps water at high pressure through a series of nozzles to produce a fine mist. By way of the adiabatic process, the SKH uses energy (heat) from the surrounding air to evaporate the fine mist (water droplets). This evaporative cooling/humidification process provides a very low energy impact with power consumption values of 2 HP to 10 HP (1.5 kW to 7.5 kW), which is less than other technologies of equivalent capacity, such as compressed air.

SKH Advantages

- Up to 21.5°F (12°C) of free cooling
- Close control humidity
- Uses energy from ambient air
- Fast and easy maintenance
- Up to 3 zones
- View and control from any zone

System Overview





- Each SKH unit has an integrated system controller that manages all sequences of operation for each zone
- Unique to Neptronic, you can tap into the system directly from within the zone by connection to the zone's thermostat/humidistat
- With its BACnet MS/TP communication, integrate the system with your Building Management System (BMS)

Variable Frequency Drive

Regulates motor and pump RPMs to ensure greater energy savings and longer pump life.

Intelligent Controller

Networkable (BACnet MS/TP), field configurable controller manages sequences of operation and provides close control for up to 4 stages and 3 zones.

Pressure Regulator and Gauge

Water inlet pressure regulator and gauge to adjust the appropriate water inlet pressure.

Pre-filter and Silver Ion Cartridge (included with SKH100 and SKH200 models)

Water pre-treated with 5µm pre-filter and anti-bacterial silver ions prevent microbial growth.

High Pressure Water Pump

High efficiency, water cooled axial piston pump (maintenance free).

High Pressure Water Outlet

Ranges varying from 66 - 4638 lb/h (30 - 2108 kg/h) per pump station depending on model.

Models and Capacities

Model	Сара	acity	Motor		
woder	lb/hr	kg/hr	HP	kW	
SKH100	66-660	30-300	2	1.5	
SKH200	141-1126	64-512	3	2.25	
SKH300	231-1454	105-661	5	3.75	
SKH600	453-2343	206-1065	7.5	5.6	
SKH900	585-3645	266-1657	10	7.5	
SKH1200	805-4638	366-2108	10	7.5	

Typical Distribution



Custom nozzle racks make it ideal for use in AHUs.

- 1 to 4 stages for sequential control
- 1st stage modulates for close control
- Droplet separator if required



Spray directly into the space for high ceiling applications (approximately 30ft/9m)

- Flexible nylon highpressure hoses or hydraulic high-pressure hoses
- With stainless steel, quick connect fittings



Spray directly into the space with a fan (MDU: Mist Distribution Unit) for low ceiling applications (minimum 15ft/4.6m)

Horizontal air flow assists
 in the evaporation process





Specify your Humidifier 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	Reports	Pricing
⊤Type ● Isoth	ermal (Hot Steam) (Adiabatic (cold	mist)	
0	mercial Electric SK mercial Electric SK	0	nercial Gas n to Steam	 Residential El Direct Steam 	ectric
– Entering Air Temperatu Relativ Humidit	re 60 °F			Ŭ	ion I Duct I Space
- Ventilation S Natu	-	Mechan 3333 CFM	ical Outsid	Economizer	00 %
			Catalo	1	~
- Humidifier(s	ad Enter	ed 4.50 lb/	hr Total Capacity		<u>Select</u> <u>Model</u>

Easy	to	Use
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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
_ Voltage —			·		
	¥	🕑 Show Voltage	s for current mode	el only	
Control					
🔘 On / Off	i	Modulating			
- Humidistat 1	Гуре				
None					
<u> </u>	midistat HRO20				
	midity Sensor HRL midity Sensor SHR				
Duct Humidity Sensor (return duct) SHC80					
Wall Humidistat HRO20 + Wall Humidity Sensor SHR10					
Wall Humidistat HRO20 + Duct Humidity Sensor (return duct) SHC80					
	Temperature Sen				
Outdoor	Temperature Sen	sor 5102-11			

Humidifier Controls and Sensors



Humidifiers for Every Application

4	Electric
0	Gas
	Steam-to-Steam
}}	Direct Steam
$\overrightarrow{}$	Evaporative
\bigcirc	High Presssure
	Software

