

### 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 mineral-free, odorless, sterile steam to be generated quickly with any water condition.



### SKE4 Advantages

- Capacities from 5 to 120 kg/hr
- Separate plumbing, controls, and high-voltage sections
- Remove the stainless steel evaporation chamber with ease
- Patent-pending water level detection system using 2 sensor technologies
- Drain water tempered to below 60°C
- 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

#### Patent-Pending Water Level Detection System

- Self-cleaning and self-calibrating sensors
- Utilizes 2 different sensor technologies
- Precise and reliable water level detection
- Anti-Foaming Energy Conservation (AFEC) System: drains water when foam is detected

#### \*All Silicone Piping

- No copper piping
- Resistant to higher water temperatures
- Suitable for all water types including DI and RO (Consult factory for Ultrapure water)

\* Alternate piping available

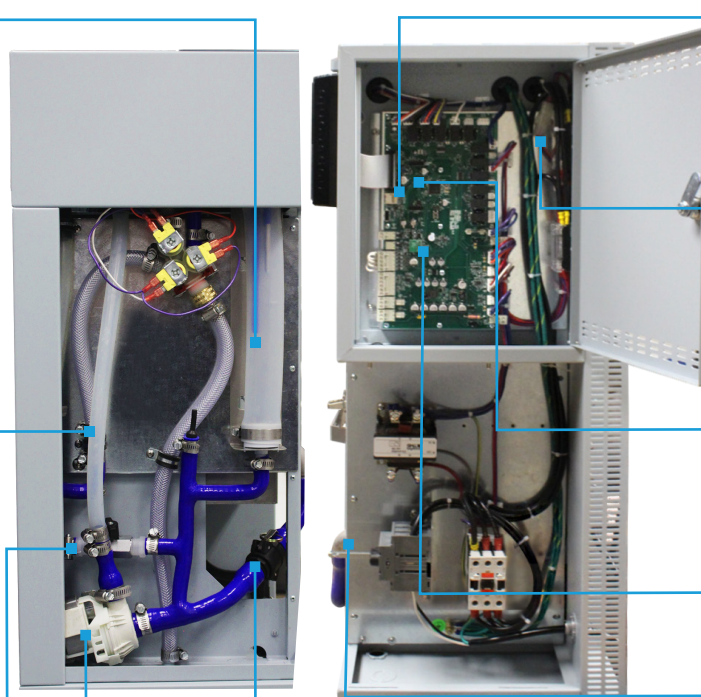
#### Manual Drain

- Functions even without power

#### Power drain pump

#### Quick Connect Water Inlet

- No tools required



#### SD Card

- Event history log
- Firmware upgrade

#### SSR with External Heat Sink

- No cooling fan required
- Reduces noise level

#### Ethernet Module (optional)

- BACnet IP or Modbus IP
- Local and remote web services

#### BACnet MS/TP and Modbus Module (optional)

#### Disconnect switch

## Specifications

### Fast and Easy Maintenance



No tools required



No heavy lifting required

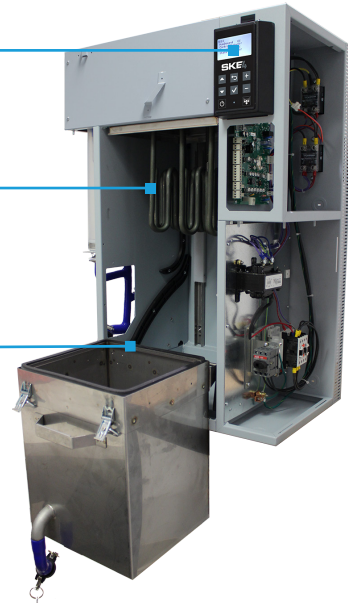
Advanced controller with multiple connectivity options  
(see page 7)

Heating elements remain fixed within the enclosure

- No need to disconnect power cables
- No added weight from the elements when removing the evaporation chamber

Drop-down design limits lifting and simplifies handling

Evaporation chamber rests securely for easy maintenance



### 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)



For Models SKE4-E05 to SKE4-E40

### 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



## Output and Consumption

Model	Steam	Consumption			Steam Output		
	Capacity (kg/hr)	Power (kW)	Amperage		QTY	Diameter (mm)	Space Distribution Unit (SDU)
			230/1	400/3			
SKE4-E05	5	3.7	16	5.5	1	35	SDU4-1
SKE4-E10	10	7.5	33	11	1	35	SDU4-2
SKE4-E20	20	15	-	22	1	54	SDU4-2
SKE4-E30	30	22	-	33	1	54	SDU4-3
SKE4-E40	40	30	-	44	1	54	SDU4-3
SKE4-E50	50	36	-	53	1	76	-
SKE4-E60	60	44	-	64	1	76	-
SKE4-E80	80	60	-	87	1	76	-
SKE4-E90	90	66	-	96	1	76	-
SKE4-E100	100	74	-	107	1	76	-
SKE4-E110	110	82	-	119	2	76	-
SKE4-E120	120	90	-	130	2	76	-

Note: Designate the letter M for modulating units (i.e.: SKE4-E20M)



SKE4-E05



SKE4-E10  
SKE4-E20  
SKE4-E30  
SKE4-E40



SKE4-E50  
SKE4-E60  
SKE4-E80



SKE4-E90  
SKE4-E100  
SKE4-E110  
SKE4-E120

## Integrated, Multi-Platform Controller

The SKE 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

