Washington County
MARYLAND

PURCHASING DEPARTMENT
DIVISION OF BUDGET & FINANCE

PUR-1587
ADDENDUM NO. 1
INVITATION TO BID

9-1-1 CALL CENTER HVAC REPLACEMENT

DATE: Tuesday, December 20, 2022

BIDS DUE: Wednesday, January 4, 2023
(Revised Due Date via Addendum No. 1) **2:00 P.M.(EDT/EST)**

To Bidders:

This Addendum is hereby made a part of the Contract Documents on which all bids will be based and is issued to correct and clarify the original documents.

Please acknowledge receipt of this Addendum at the appropriate space on the Proposal Form. This Addendum consists of two (2) pages and three (3) attachments.

NOTE: All Bidders must enter the Washington County Administration Complex through either the front door at the 100 West Washington Street entrance or through the rear entrance (w/blue canopy roof) which is handicap accessible and must use the elevator to access the Purchasing Department to submit their bid and/or to attend the Pre-Bid Conference. Alternate routes are controlled by a door access system. The general public will be subject to wand search and will be required to remove any unauthorized items from the building prior to entry. Prohibited items include but are not limited to: Weapons of any type; Firearms, ammunition and explosive devices; Cutting instruments of any type - including knives, scissors, box cutters, work tools, knitting needles, or anything with a cutting edge, etc.; Pepper spray, mace or any other chemical defense sprays; and Illegal substances.

ITEM NO. 1: All references in he bid document made to the Bid Submission Deadline and Bid Opening Time shall be changed to read: **No later than 2:00 P.M. (EDT/EST), Wednesday, January 4, 2023.**

ITEM NO. 2: *Inquiry:* The drawings and specs for the 911 Call Center project do not specify by model number what the new Neptronic humidifier is to be.

Response: See Attachment A to this Addendum.

ITEM NO. 3: *Inquiry:* We want to request another site visit and extension on the subject line solicitation/project.

Response: Bidders who wish to schedule a site visit should contact the Division of Emergency Services at 240-313-4360.

ITEM NO. 4: *Inquiry:* I'm inquiring to see if I may obtain an electronic copy of the plans/specs for the subject project.

Response: Bid documents are available for downloaded from the County's web site: https://www.washco-md.net/purchasing-dperatment/purch-open-invites/.

ITEM NO. 5: *Inquiry:* Is there a plan holders list available?

Response: See Attachment B to this Addendum.

ITEM NO. 6: *Inquiry:* What is the start date/end date for construction?

Response: The start/end date has not been established due to the possible long lead time for equipment, submittals, etc.

ITEM NO. 7: *Inquiry:* What is the estimated value for this project?

Response: There is a budget for this project

ITEM NO. 8: *Inquiry:* Are there union requirements for this project?

Response: There are no union requirements for this project.

ITEM NO. 9: *Inquiry:* I would also like to inquire if I may obtain the Sign in Sheet from the Pre-Bid meeting that took place on November 30, 2022.

Response: See Attachment C to this Addendum.

By Authority of:

Rick F. Curry, CPPO
Director of Purchasing

***(NOTE:** The wording of all "Inquiries" submitted are displayed exactly as received.)*

Project Information

Project Number:	SK221310019
Project Name:	Washington County 911 Call Center
Project Date:	11/05/2022
Customer Name:	
Customer Address:	
Customer Purchase Order Number:	
Location:	
Engineer:	
Agent (Salesperson):	Ward Boland Assoc - WBA / Logan Sieg
Notes:	

Product and Option Schedule:

		Tag		
Air Conditions		H-1(Hum-1)		
External	Temperature	1.40°F		
	R.H.	50%		
Entering	Temperature			
	R.H.			
Indoor	Temperature	72.0°F		
	R.H.	45%		
Outdoor Air		Mechanical		
Mechanical	Total Air Flow	3000CFM		
	Outside Air	10%		
Economizer	Total Air Flow			
	Mixed Air Temp.			
Natural	Building Volume			
	Air Changes/hr			
Humidifier Selection				
Calculated Load		9.3lb/hr		
Humidifier Capacity		18.0lb/hr		
Humidifier Model		SKE4-N06M-208-3		
Signal		Modulating		
Power		6kW		
Voltage/Phase/Cycle		208/3/60hz		
Amperage		16.5A		
Dispersion Selection				
Dimensions Duct/AHU	Width	20.00"		
	Height	20.00"		
Air Temp. before humidification		68.0°F		
R.H.	Entering	46.9%		
	Leaving	51.5%		
Dispersion Model (# of tubes)		SAM (1) H		
Absorption distance		6"		
Controls and Accessories		NF HRO20, NF SHC80, NF SHS80, SF PUMP404CV, SW APS		
Note				

Product Description

CABINET: The compartmentalized enclosure separates the plumbing, controls, and high-voltage sections to simplify access to the different trades required to install, maintain, and commission the humidifier.
- Cold roll steel and stainless base with baked enamel finish. Key locked access doors.
- Plumbing and high-voltage access panels hang on the edge of the humidifier for easy storage.

HUMIDIFIER CONTROL: Microprocessor-based controller with 128x64 pixel LCD, menu-driven configuration, and 8 configuration buttons including auto/off and drain buttons.
- User rights management to display only menu functions available to the type of user logged in
- Quick Config Menu displays only the most commonly used functions for faster and easier installation
- Independent schedules for unit operation and drain cycle
- In-field firmware upgradeable via SD card, USB or BACnet
- Simple viewing and exporting of trending log and alarm log
- Optional BMS integration via BACnet MS/TP or Modbus
- Optional Ethernet module for BACnet IP/Modbus IP and web services for remote configuration and diagnostics

PIPING: Tubing is molded silicone eliminating junctions that could leak and allows for the use of any water type (tap, DI or RO).

VALVES: Inlet: Quiet solenoid. Drain: Motorized pump. A manual drain valve permits draining of the evaporation chamber even during a power failure.

EVAPORATION CHAMBER: Permanent stainless steel evaporation chamber can be removed by accessing only the evaporation chamber – all other components, such as the heating elements and the steam hose remain permanently fixed. Access the evaporation chamber without any tools by removing the water inlet quick connect, disengaging the latches, and sliding the chamber down using the unique rail-guided system. The evaporation chamber hangs freely on the edge of the humidifier eliminating the need to lift the chamber and place it on the floor or work table. The heating elements remain fixed within the enclosure without needing to disconnect power cables or move the heating elements, which reduces manipulation and the weight of the evaporation chamber and saves time.

ELEMENTS: Made of Incoloy 800/825 with a high coefficient of thermal expansion. The elements are self-cleaning due to their expansion and contraction.

AFEC (Anti-foaming Energy Conservation): The patented AFEC system ensures proper water level control under varying water conditions (Hard, soft, RO or DI) by initiating a drain only when foam is detected eliminating the need for surface skimming.

WATER LEVEL DETECTION SYSTEM: The patent-pending water level detection system with redundancy uses three sensors consisting of a high-resolution capacitive sensor and two resistive sensors. The capacitive sensor and dual resistive sensors cross-verify their respective functions, which results in automatic self-zeroing throughout the lifetime of the humidifier. The two types of water level sensors provide redundancy; if one fails, the other sensor takes over and ensures safe and uninterrupted operation while providing a local/remote warning. A fill valve at the top of the sensors' tube flushes and cleans the sensors at every drain cycle to ensure they are free of deposits.

THERMAL PROTECTION: Two-level temperature protection. The first temperature sensor is located inside the evaporation chamber and the second temperature sensor is located on the outside of the evaporation chamber cover. Either sensor stops the humidifier if a high-temperature condition is detected.

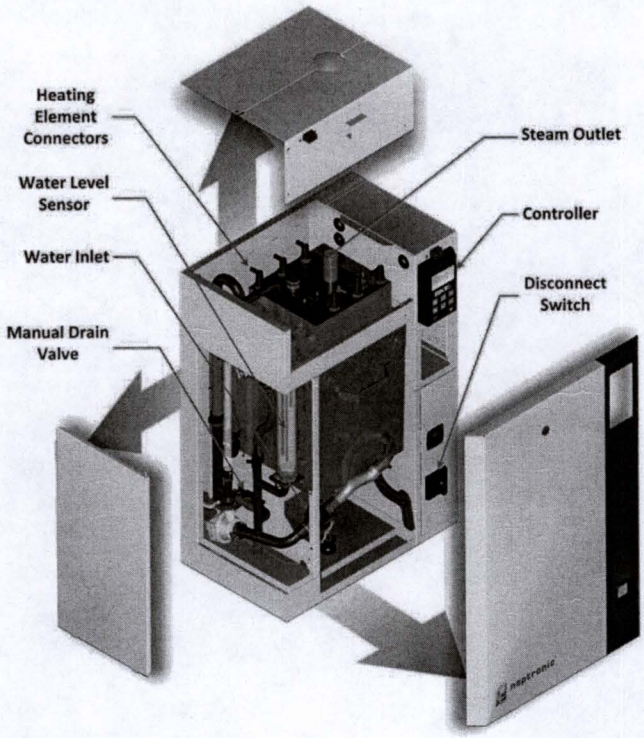
ELEMENT MODULATION CONTROL: Modulation is done using SSRs (Solid state relays) with zero crossing detection and firing. The SSRs do not generate spikes, noise or harmonic distortion on the electrical system.

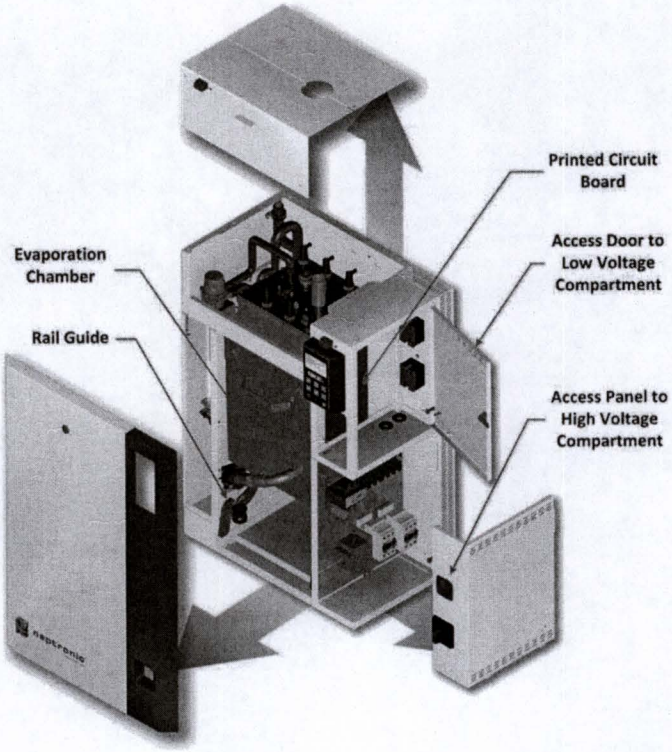
CAPACITY REDUCTION: Using the controller, the capacity of a modulating system can be programmed from 0 to 100% by using the MaxOutput setting.

WATER COOLER: Internal drain water to ensure drain water tempering to 140°F (60°C) or less.

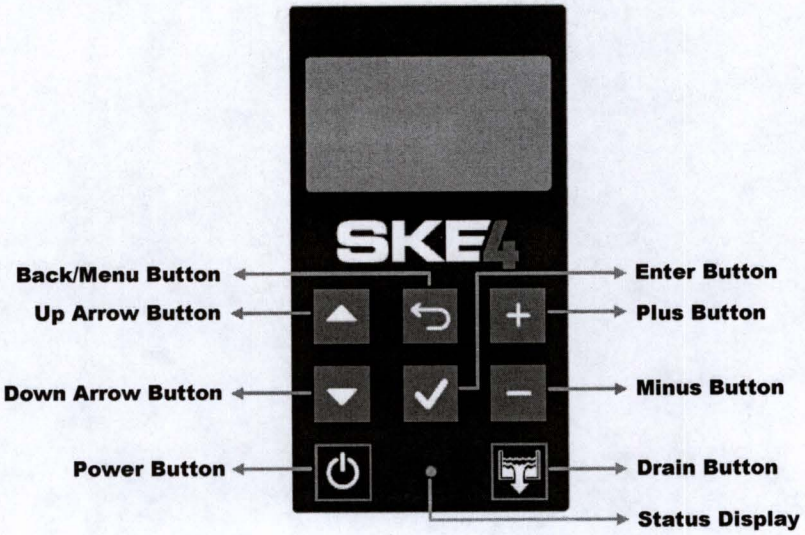
ETL-C-US listed.

SKE4-N Series Humidifier



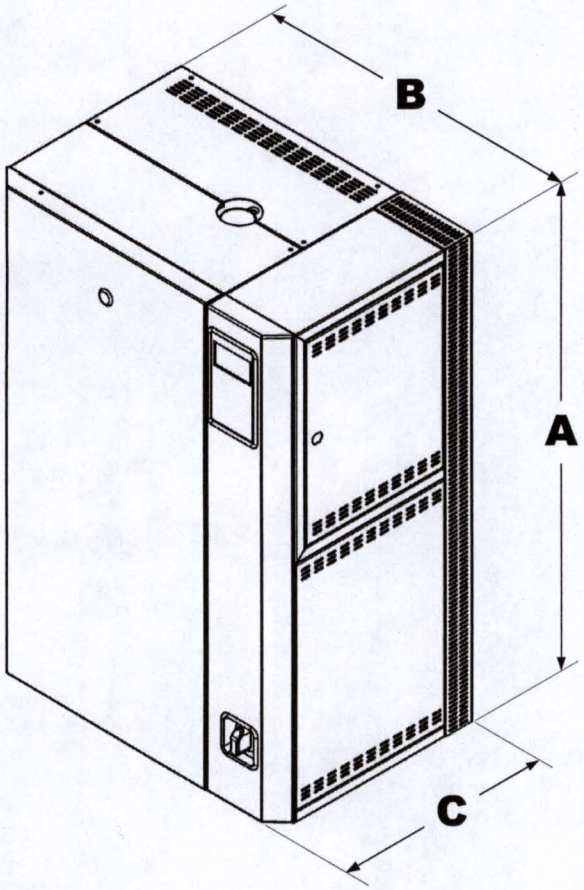


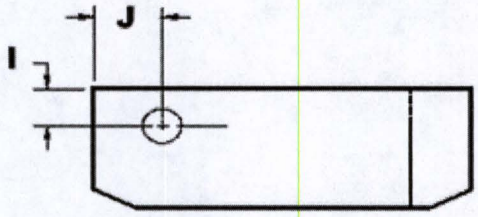
SKE4-N Monitoring and Control Panel



Feature		Description
Status Display	☼ (Blue)	Indicates that the humidifier is turned on. The LED will begin blinking as the system is initializing.
	☼ (Red)	Indicates that the alarm is issuing a warning and that the system must be verified.
	O (Off)	Indicates that the humidifier is turned off.
Power Button	⏻	The power button is used to turn the humidifier on or off. Must be pressed and held for 3 seconds to perform the related action, in order to prevent accidental activation. Even when the humidifier is powered off, the controller remains operational.
Drain Button		The drain button is used to manually activate the drain cycle. Must be pressed and held for 3 seconds to perform the related action, in order to prevent accidental activation. Even when the humidifier is powered off, a manual drain cycle may be initiated. *Once the manual drain cycle is completed, the system will automatically be powered off. To turn the humidifier back on, press and hold the power button.*
Up and Down Arrow Buttons	▲ ▼	The up arrow button is used to scroll to the next menu item or parameter. The down arrow button is used to scroll to the previous menu item or parameter.
Plus and Minus Buttons	+ –	The plus button is used to increase the value of the displayed parameter. The minus button is used to decrease the value of the displayed parameter.
Back/Menu Button	⮌	The back/menu button is used to go to previous menu or to access the Main Menu page from the Idle Screen.
Enter Button	✓	The enter button is used to advance to the next sub-menu, to access selected option or to confirm set parameter value.

Dimensions:



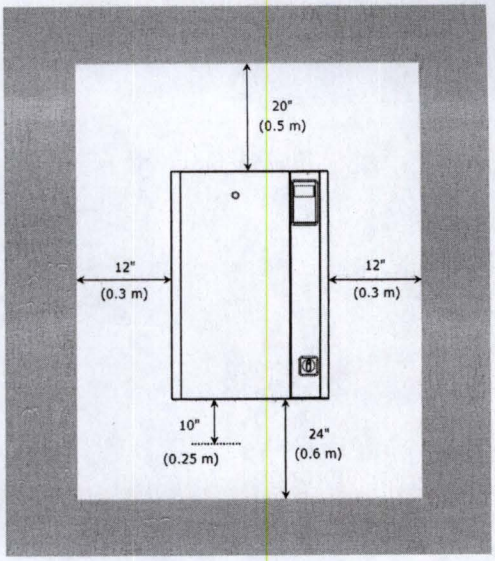


Dimensions and Weight

Tag	Model	Dimensions of the Cabinet (in)					Steam Outlet(s) Location (in)			
		A	B	C	Weight (lb)		I	J	No. of Steam Outlet	Steam Outlet Dia.
					Empty	Full of Water				
H-1	SKE4-N06M	23	19-3/8	13-3/4	71	85	6-3/4	9-1/8	1	1.375

Positioning and Installation

General Recommendations

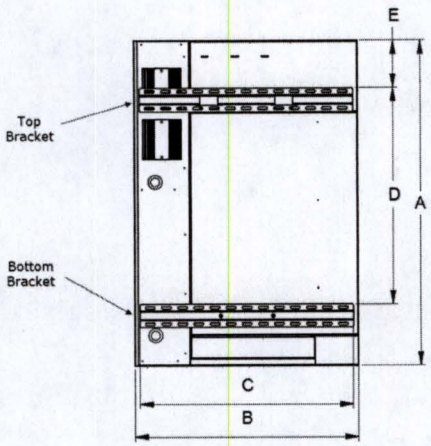


The humidifier must be installed in an easily accessible location to allow proper access for inspection and servicing of the humidifier. The unit must never be installed in a location where unusual malfunction of the unit can cause damage to the building structure or to costly equipment. Typically, the total steam line length between the humidifier and the steam distributor depends on the steam line material type:

- For flexible steam hoses: the total steam line length must not exceed 16 feet (5 meters). For longer distances, use insulated hard piping.
- For insulated hard piping: the total steam line length is determined by the humidifier capacity: one equivalent foot for
- each lb/h capacity of the humidifier (0.67m equivalent for each kg/h), with a maximum of 50 feet (15m). For longer steam line runs, consult factory.

Positioning

The humidifier must be mounted at a minimum of 24" (0.6m) above floor level. Leave a clearance of at least 10" (0.25m) under the humidifier for the installation of water supply, drain piping and electrical connections. A clearance of at least 48" (1.2m) from the front of the unit and 12" (0.3m) from the right and left hand side is necessary for ease of access and service. Leave a clearance of at least 20" (0.5m) on top of the humidifier. The humidifier must be installed in a well-ventilated area and the ambient temperature must not exceed 86°F (30°C).



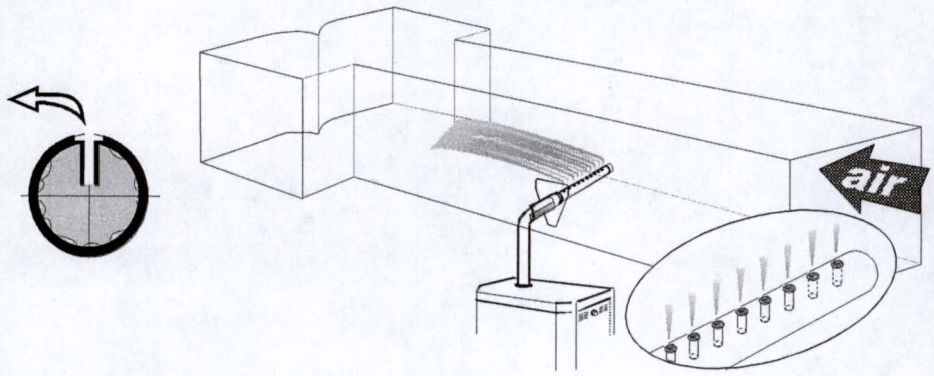
Wall Mounting

The mounting of the humidifier on the wall is to be done by using the supplied brackets and screws.
After securing the brackets to the support or wall using 4 screws per bracket, the top inserts located on the back of the humidifier cabinet must be placed into the open slots of the top bracket.
By opening the front door of the humidifier, secure the humidifier to the bottom bracket by drilling screws in the center of the bracket.

Tag	Model	Dimensions (in)				
		A	B	C	D	E
H-1	**SKE4-N06M**	23	19-3/8	18-3/8	16-1/8	7/8

Steam Dispersion System Selection and Positioning

S.A.M. (Steam Absorption Manifold)



The S.A.M. is to be installed where absorption distances are short, less than 5 feet (1500mm), and/or low duct temperatures are in effect.

The S.A.M. is a stainless steel manifold with brass nozzle inserts. The nozzles collect the dry steam from the center of the tube preventing condensate from escaping.

Tag	Model
H-1	MF SAM A Manifold Length: 16 in. H

Plumbing Connections

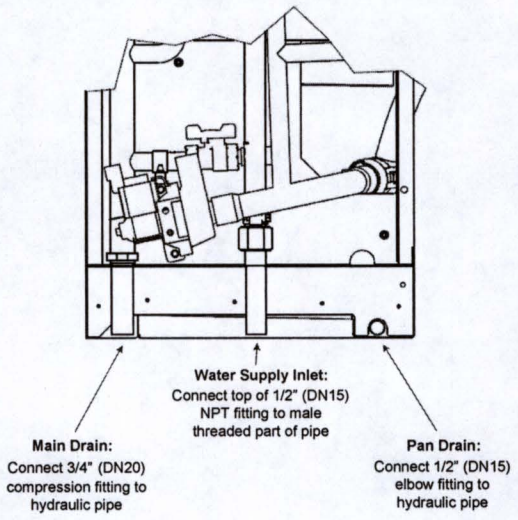
Shutoff Valve, Water Strainer and Water Hammer Arrestor:

In order to facilitate servicing, install a shutoff valve in the water supply line close to the humidifier.
It is also recommended to install a standard water strainer in the water supply line and to install a water hammer arrestor, in order to absorb hydraulic shock and minimize water hammer when the fill valve closes.

Drain Connection:

Use standard copper hydraulic pipes placed underneath the humidifier to provide the connection between the unit and the two drain connections, located on the underside of the unit. Ensure that the drain pipe dimension is sufficient, especially if more than one unit is evacuating into the same drain line.

- ✓ Evaporation chamber water drain temperature: 140°F (60°C)

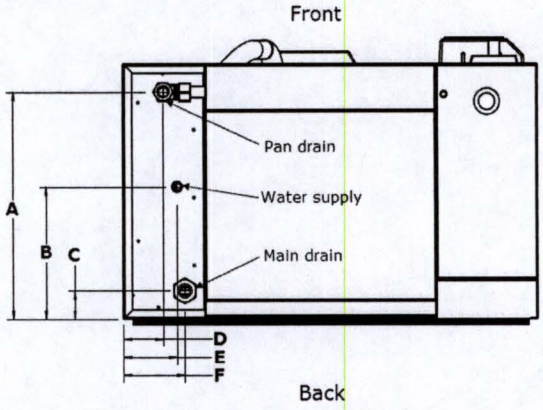


Plumbing connections

Water Supply:

The water inlet specifications are:

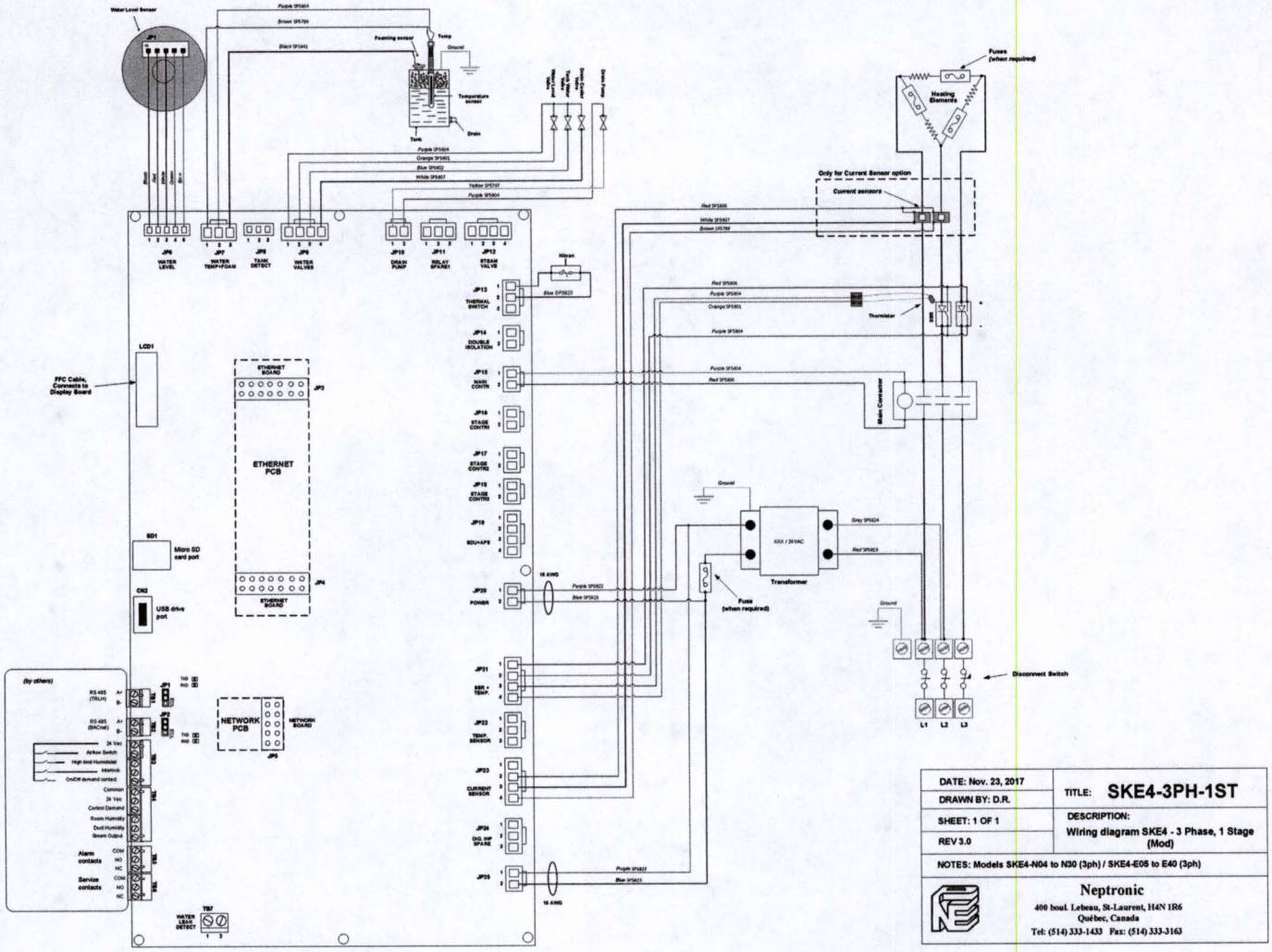
- ✓ Inlet water pressure: 10 to 70 psig (0.7 to 4.8 bars)
- ✓ Maximum temperature: 86°F (30°C) maximum
- ✓ ½" (DN15) standard copper water line connection



(Bottom view)

Tag	Model	Dimensions (in)					
		A	B	C	D	E	F
H-1	SKE4-N06M	10-5/8	7	1-1/2	2	2-7/8	3-1/4

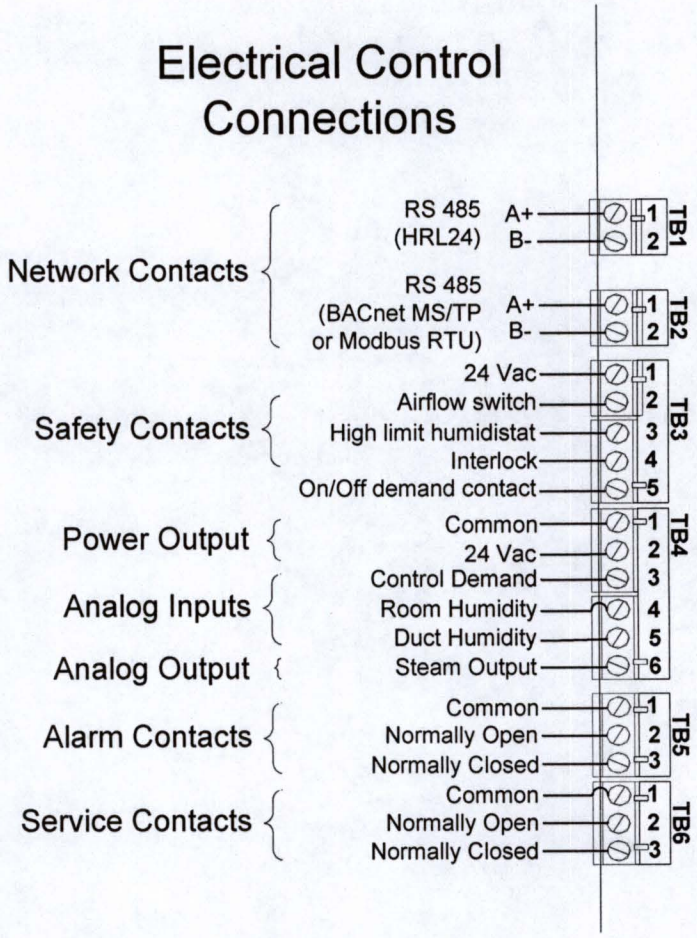
Wiring Diagram (H-1)



DATE: Nov. 23, 2017	TITLE: **SKE4-3PH-1ST**
DRAWN BY: D.R.	
SHEET: 1 OF 1	DESCRIPTION: Wiring diagram SKE4 - 3 Phase, 1 Stage (Mod)
REV 3.0	
NOTES: Models SKE4-N04 to N30 (3ph) / SKE4-E05 to E40 (3ph)	

Neptronic
400 boul. Lebeau, St-Laurent, H4N 1R6
Québec, Canada
Tel: (514) 333-1433 Fax: (514) 333-3163

Control Terminals



Safety Contacts

The **Airflow switch** contact must be wired between terminals TB3 1&2. If this contact opens, operation of the SKE4 unit will stop. The unit will display the airflow switch as open, but will not generate an alarm. If an airflow switch is not used, install a jumper between terminals TB3 1&2.

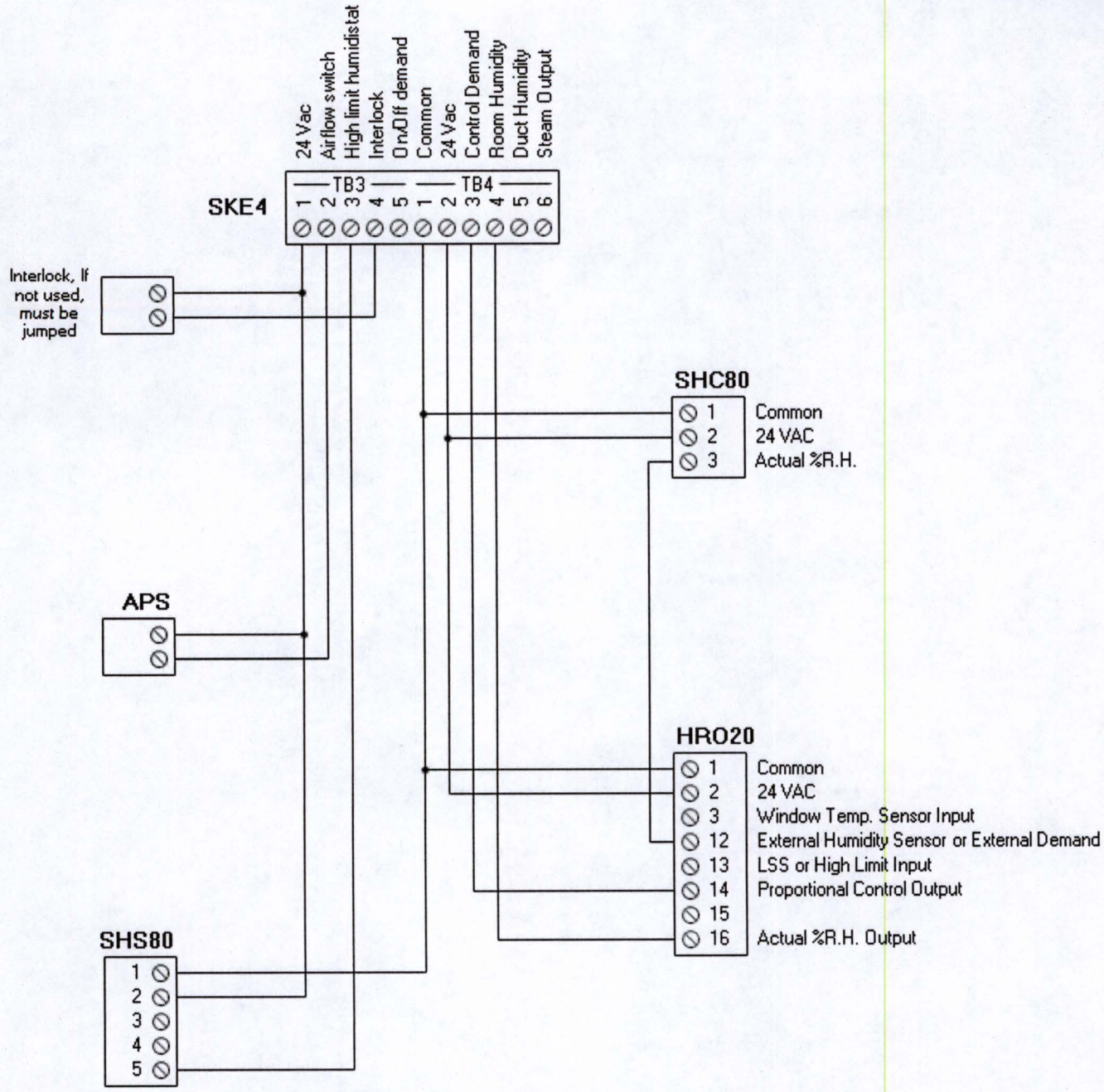
The **High limit humidistat** contact must be wired between terminals TB3 1&3. If this contact opens, operation of the SKE4 unit will stop and an **alarm** message will be displayed. If a high limit humidistat is not used, install a jumper between terminals TB3 1&3.

The **Interlock** must be wired between terminals TB3 1&4. If this contact opens, operation of the SKE4 unit will stop. The unit will display the Interlock as open, but will not generate an alarm. If Interlock is not used, install a jumper between terminals TB3 1&4.

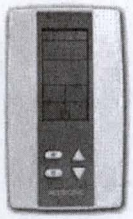
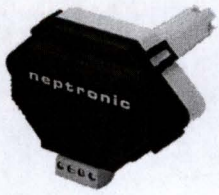
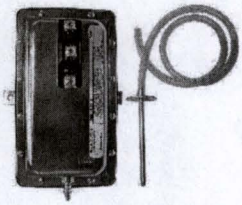
Dry Contacts

Two series of volt free contacts are provided: **Alarm Contacts** and **Service Contacts**.
Each series has one Normally Closed contact and one Normally Open contact.
These contacts are used to switch a low voltage, ideally **24V**, with a switching current of no more than **3 Amps**.
It is recommended to use the Normally Closed contact, as this contact will open in the event of a humidifier fault.

Control Wiring Diagram (H-1)



Controls & Accessories

Item	Model	Description
	HRO20	Wall mounted modulating humidity controller with electronic display and adjustment buttons. Adjustable range: 10-90% RH. Selectable output signals, 2%-10% proportional band and dry contact output. Humidity reset input for an external temperature sensor.
	SHC80	Duct mounted humidity sensor, 0-10VDC output, with an accuracy of +/-3%.
	SHS80	Duct mounted humidity sensor with On/Off high limit humidistat, 0-10VDC output, with an accuracy of +/-3%. Adjustable range: 20-90% RH. Built-in humidity and temperature sensor.
	APS	Air pressure switch, SPDT, 0.05"WC (1.3mmWC) set point.
	PUMP404CV	Drain pump use to collect and automatically remove the drain water produced by the humidifier.

PUR-1587 9-1-1 Call Center HVAC Replacement **Attachment B**

Company Name	Contact Name	Contact Title	Physical Address	Phone	Email
Beitzel Corporation	Michael McCarthy	Sr. Project Manager	333 Corporate Drive Grantsville, MD 21536 US	(301) 245-4107	michaelmccarthy@beitzelcorp.com
Best Mechanical Services LLC	roger shiflett	project manager	104 Mountain RD Suite 1C Glen Burnie, MD 21060 US	(410) 446-5090	bestmech54@gmail.com
CAWV	Shelly Hartley	Administrative Assistant	2114 Kanawha Boulevard East Charleston, WV 25311 US	(304) 342-1166	planroom@cawv.org
ConstructConnect	Morgan Stinson	9-1-1 Call Center HVAC Replacement	3825 Edwards Rd. Ste. 800 Cincinnati, OH 45209 US	(800) 364-2059	content@constructconnect.com
Construction Bid Source	Cindy Poliachik	Publishing Consultant	413 Brisbane Woods Way Cary, NC 27518 US	(888) 786-9450	cpoliachik@constructionbidsource.com
Denver-Elek, Inc	Bill Pawlak	Preconstruction Manager	8860 Kelso Dr Essex, MD 21221 US	(410) 574-8400	bpawlak@denver-elek.com

East Coast Welding and Construction Co Inc	Chris Brown	President	1207 Wilson Road Glen Burnie, MD 21061 US	(410) 787-1451	office@eastcoastweldingandconstruction.com
Gipe Associates, inc.	Leah Schultz	Marketing Director	1220 East Joppa Road Towson, MD 21286 US	(410) 832-2420	lschultz@gipe.net
M.S. Johnston Co., Inc.	Angela Tiller	Project Assistant	13261 Pennsylvania Ave. Hagerstown, MD 21742 US	(301) 733-1066	estimate@msjohnston.com
napc	lyra de	manager	PO Box 40445 Grand Junction, CO 81504 US	(302) 450-1923	lyra@napc.me
Nova Facility Solutions, Inc	Raja Singh	President	1765 Greensboro Station Place Suite 900 McLean , VA 22102 US	(703) 214-2943	jsingh@nvafs.com

Onvia	Source Source	Call Center HVAC Replacement	509 Olive Way Suite 400 509 Olive Way Suite 400 Seattle, WA 98101 US	(020) 637-3950	deltekplusonvia@gmail.com
Prime Vendor Inc.	Kim Jones	sad	4622 Cedar Avenue Wilmington, NC _____82_4 US	(222) 222-2222	primevendor123@gmail.com
Pwxpress	Mary Miller	PUR-1587 9-1-1 Call Center HVAC Replacement	1900 Coffeeport Rd Jacksonville, FL 32208 US	(040) 867-6894	bids@pwxpress.com
Seven Outsource	Steve Walse	PUR-1587 9-1-1 Call Center HVAC Replacement	113 Barksdale Professional Cen, New, Newark 3153087852 Newark, DE 19711 US	(144) 103-1530	rfpalerts@gmail.com
SmartProcure	Ron Bjornsson	Director of Data Engineering	700 W Hillsboro Blvd Suite 4-100 Deerfield Beach, FL 33441 US	(954) 420-9900	rbjornsson@smartprocure.us

THWilson Bonds	Sheila smith	ms	4586 E. Copper Ave Suite 3342 Clovis, CA 93619 US	(559) 876-2610	thwbonds@outlook.com
United Enterprises Construction	Lyndon Horst	Estimator	301 S Antrim Way Greencastle, PA 17225 US	(717) 597-5088	lyndon@unitedec.net

PUR-1587 **Attachment C**

Pre-Bid Conference/Teleconference
9-1-1 Call Center HVAC Replacement

Wednesday, November 30, 2022
10:00 A.M.

Representative's Name/E-mail *(Please Print)*	Company / County Dept.	Address City, State, Zip	Phone	Fax
Name Brandi Naugle E-mail bnaugle@washco-md.net	Washington County Purchasing Department	100 West Washington Street, #3200 Hagerstown, MD 21740	240-313-2330	240-313-2331
MIKE JOHNSTON E-mail MIKE@MSJOHNSTON.com	MS Johnston	13261 Pennsylvania Ave Hag Md	301-733 1066	301-797-9675
Name ANDREW ESHLEMAN E-mail aeshleman@washco-md.net	Wash Co DPW	100 West Washington Street Hagerstown, MD 21740	240-313-2252	
Name LES GRIM E-mail LSGRIM@LSGRIM.COM	LS GRIM, INC	1722 Jefferson BLVD HAGERSTOWN MD 21713	301 797 1702	301 797 4931
Name Steven Downey E-mail steve@patapscomechanical.com	Patapsco Mechanical		410-766-3831	
Name Michael McCarthy E-mail michaelmccarthy@beitzelcorp.com	Beitzel Corp Company		301-338-3189	
Name E-mail				
Name NIKKI CANETTE E-mail dodgedocs@construction.com				
Name E-mail				
Name E-mail				