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Help

Help Software Tutorial

Configuring a SAM-e without a
Humidifier

Help Tutorials provide step-by-step examples of complete load sizing projects and browser projects with the various humidifier and distributor technologies.

In this tutorial, you will learn how to configure a SAM-e without a humidifier.

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Log In and Projects List

To begin, start by logging into your Help account. Once completed, hover your mouse over the **Projects** tab and then select **List all Browser Projects** as shown in Figure 1: Projects List. The Projects list is where all of your projects are stored. Projects are stored in the cloud and are available from whichever device you choose to access Help with.

There are two types of Projects:

Load Sizing Projects: Allows you to calculate humidification loads and select product step by step through a wizard style approach. Selections can be supplemented by adding product from the Product Browser Catalog.

Browser Projects: Allows you to create your own Bill of Material with product from the Product Browser Catalog.

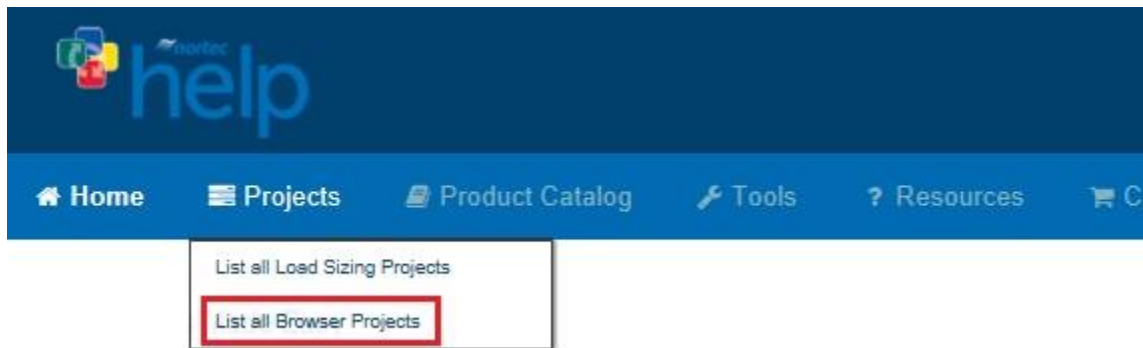


Figure 1: Projects List

Create a New Project

To create a new project, select the **Add** icon shown in Figure 2: Create a New Project to add a browser project.

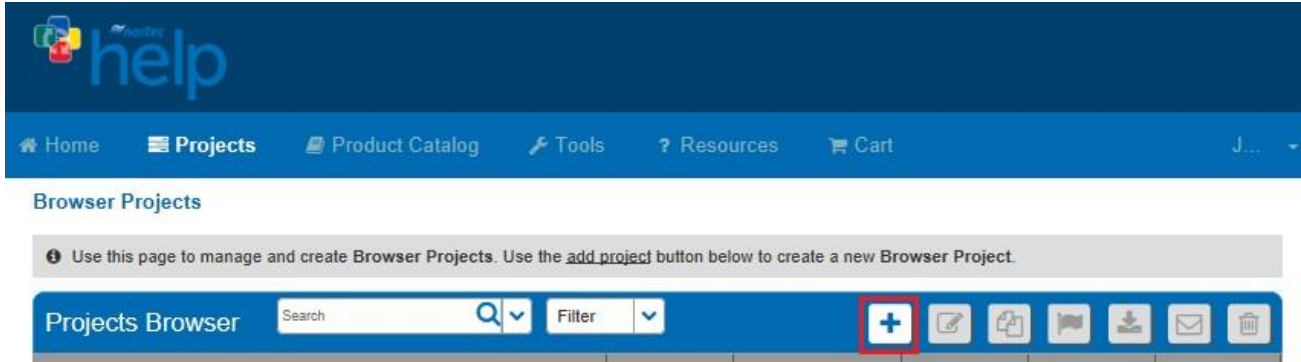


Figure 2: Create a New Project

A dialogue box, as shown below, will appear and request project information. Give the project a name such as “SAM-e”. You can also enter a Project Number, Customer Name, and Required Completion Date if you wish.

A screenshot of a 'Add Browser Project' dialog box. The title bar is blue with the text 'Add Browser Project' and a close button. The form contains the following fields:

- * Name: Text input field containing 'SAM-e'
- Project Number: Text input field
- Customer: Text input field
- * Created: Date dropdown menu showing '2015/08/04'
- Required Date: Date dropdown menu

At the bottom right, there are two buttons: 'SAVE' with a floppy disk icon and 'CANCEL' with an 'X' icon.

Figure 3: Add Browser Project

Click **Save** at the bottom-right when you have finished editing values.

Project Home Page

You will be redirected to the Project Home Page. The Project Home Page is the central page from which you can add products, export submittals, and request pricing.

To add products select the **Add Products** icon indicated in Figure 4: Project Home Page.

Browser Projects / SAM-e Tutorial

Provide your project details, outside air design parameters, then add a zone using the button in the zone list to begin load sizing and humidifier selection.

Project Information

Configuration Notes Project History Document Center

 Project Information Name: SAM-e Tutorial Project Number: Customer: Created: 2013/08/28 Required Date:	 Customer Address JS Consulting Engineers Ltd. 123 Palm Street Unit 1 Ogdensburg, New York, United States 13669 Customer Contact John Smith user@humidity.com 555-555-5000
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There are currently no Bill of Materials for this project. 

Figure 4: Project Home Page

Product Catalog

You will be redirected to the **Product Catalog** home page. This page contains a listing of all of the various humidification products offered by Nortec. For this tutorial, you require a SAM-e distributor. Scroll down the page until you locate the **Distributors** listing as shown in Figure 5: Distributors.

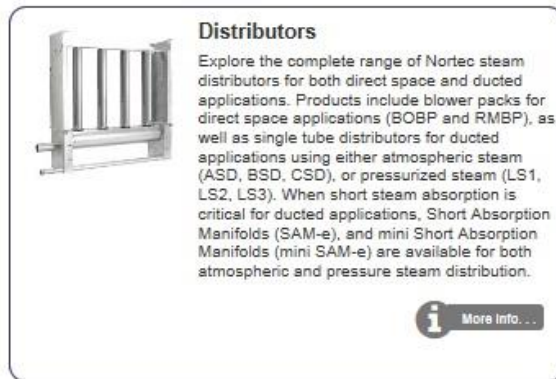


Figure 5: Distributors

Click anywhere within the box to view the Distributors Product Line. Clicking **More Info** will redirect you to the Nortec website. Within the Product Catalog, you can navigate using the Navigation Bar on the Left or by using the Product Catalog Menu in the top Navigation Bar.

Within the left navigation bar, locate the **Short Absorption Manifolds** category as shown in Figure 6: Short Absorption Manifolds.

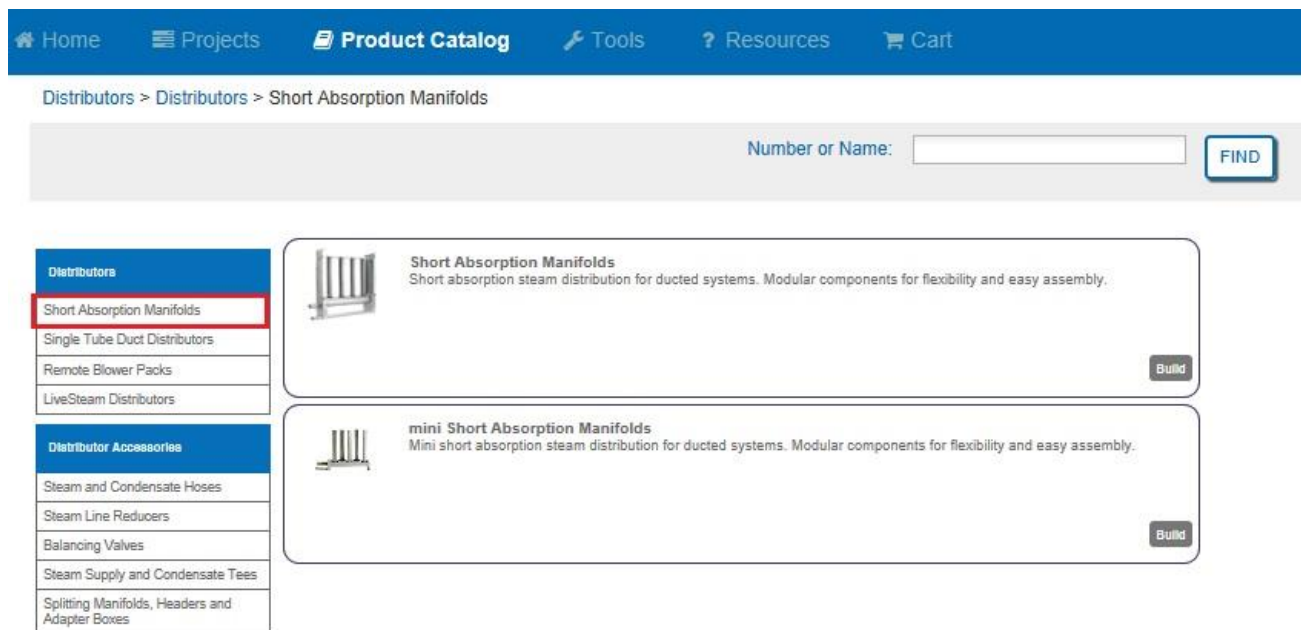


Figure 6: Short Absorption Manifolds

Build A Short Absorption Manifold

Certain products in Help are designed to meet certain sizing and, therefore, require configuration by the software. The SAM-e short absorption manifold is an example of this type of product. To configure a SAM-e, begin by clicking the build button as shown in Figure 7: Build Button.

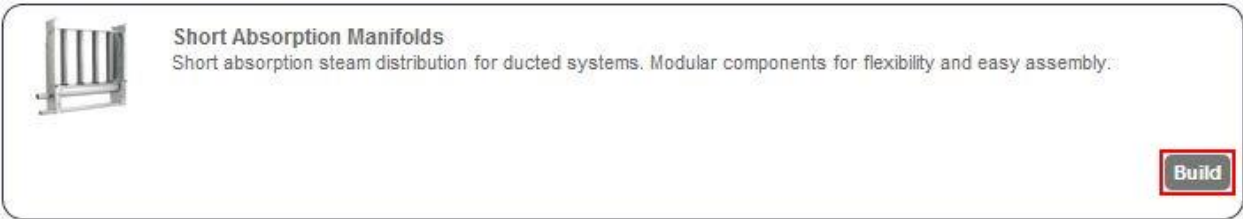


Figure 7: Build Button

The dialogue box shown in Figure 8: SAM-e Configuration will appear. Here you will be required to input project details in order for Help to configure the proper product for your specifications.

✕

Build your SAM-e

All SAM-e products are custom made. Please provide your requirement details below and then press the 'Next' button to view your SAM-e summary.

* Duct Width (in.):

* Duct Height (in.):

Duct Orientation:

* Load (lb/hr):

Steam Type:

Tube Spacing:

Tube Material:

Support Frame:

Support Stand:

Insulation:

Inlet Adapter:

Figure 8: SAM-e Configuration

Complete this dialog box with the following values:

1. **Duct Width (in.):** *48 in.*

Specify your available inside duct width, Help will ensure that the SAM-e width will fit inside of this space. Valid widths are 18 – 144 inches.

2. **Duct Height (in.):** *48 in.*

Specify your available inside duct height, Help will ensure that the SAM-e height will fit inside of this space. Valid widths are 18 – 144 inches.

3. **Duct Orientation:** *Horizontal.*

Specify whether the duct is a horizontal or vertical flow duct

4. **Load (lb/hr):** *55 lbs/hr.*

Specify a load in pounds per hour. Help will select tubes and header types based on this load.

5. **Steam Type:** *Atmospheric.*

Specify “atmospheric” steam when the source is a humidifier. Specify “pressurized” when a facility boiler is providing humidification steam (5 - 50 psig).

6. **Tube Spacing:** *12 inches.*

Select a tube spacing of 3, 6, 9, or 12 inches. Wider spacing will increase absorption distance but minimize heat transfer and condensate losses. Narrower spacing will decrease absorption distance but increase heat transfer and condensate losses. Help relies on duct temperatures and conditions to calculate accurate absorption distance, as a result absorption distances are only available for load sizing project types.

7. **Tube Material:** *304 Stainless Steel.*

304 stainless steel is a premium material choice that will maintain a like new appearance over its life. 409 stainless steel is an economical alternative that may discolor over time.

8. **Support Frame:** *Galvanized Steel*

Specify galvanized steel, stainless steel, or no support frame. Support frames provide additional stability to the SAM-e and allow it to be easily secured to a duct ceiling (SAM-e would typically be secured to duct side walls without frame). Frames are optional for horizontal flow applications but are required to provide proper support for vertical flow applications.

9. **Support Stand:** *None.*

Support stands raise the SAM-e by either 12 or 20 inches to allow adequate height for condensate traps to be installed in duct as opposed to outside of the duct. Help will automatically shorten the distributor tubes to compensate for the added height.

10. **Insulation:** *Unchecked.*

Insulation covers both the header and steam tubes minimizing heat transfer and improving system efficiency.

11. **Inlet Adapter:** *Inlet Adapter Kit 1, SAM-e 100 lbs/hr 1.75.*

An inlet adapter kit must be selected to complete the SAM-e. Inlet adapters are rated by steam flow capacity and diameter in inches.

Click **Next** once you have completed the selection. Help will display a summary of selected parts and offer the choice to **Add to Cart** or **Cancel**.

The Shopping Cart

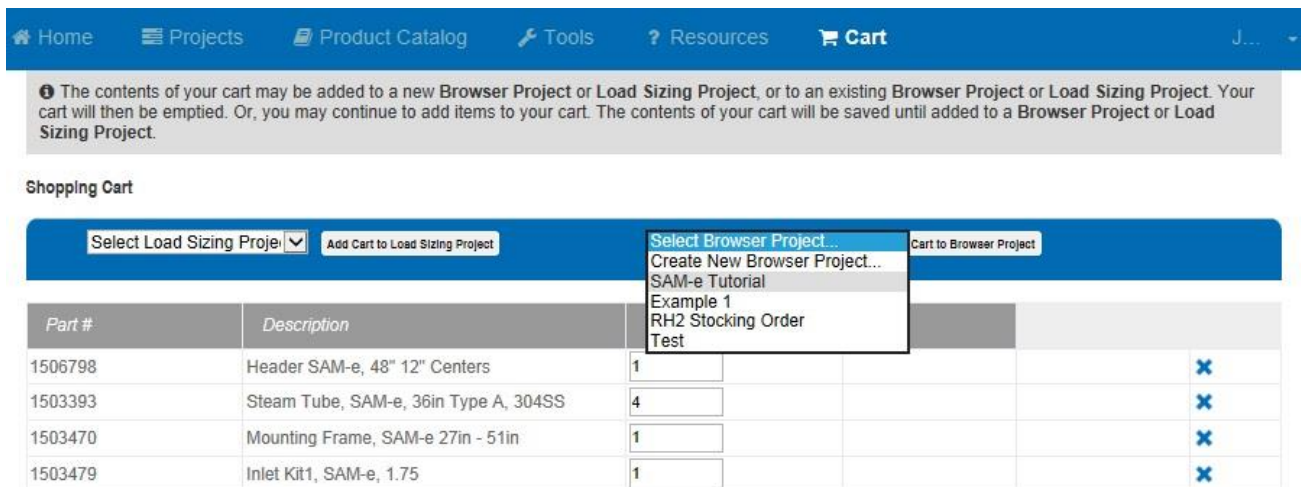
Select **Add to Cart**.

The **Shopping Cart** is a temporary location where products you select are stored prior to being added to a project. Products in the shopping cart can be added to any project at any time.

Select **Cart** from the top navigation bar to view the shopping cart and any products added from the product catalog

To add the SAM-e selection made during the previous step, select your SAM-e Tutorial project from the **Select Browser Project** drop down menu on the right as shown in Figure 9: Adding Cart to Project. (The left hand drop down menu can be used for adding carts to Load Sizing Projects).

Click **Add Cart to Browser Project** to complete action.



The screenshot shows the top navigation bar with 'Home', 'Projects', 'Product Catalog', 'Tools', 'Resources', and 'Cart'. Below the navigation bar is a warning message: "The contents of your cart may be added to a new Browser Project or Load Sizing Project, or to an existing Browser Project or Load Sizing Project. Your cart will then be emptied. Or, you may continue to add items to your cart. The contents of your cart will be saved until added to a Browser Project or Load Sizing Project."

The main content area is titled "Shopping Cart" and contains a table with the following items:

Part #	Description	Quantity	Unit Price	Total Price	Action
1506798	Header SAM-e, 48" 12" Centers	1			X
1503393	Steam Tube, SAM-e, 36in Type A, 304SS	4			X
1503470	Mounting Frame, SAM-e 27in - 51in	1			X
1503479	Inlet Kit1, SAM-e, 1.75	1			X

At the top of the cart area, there are two dropdown menus: "Select Load Sizing Project" and "Select Browser Project...". The "Select Browser Project..." dropdown is open, showing options: "Create New Browser Project...", "SAM-e Tutorial", "Example 1", "RH2 Stocking Order", and "Test". There are also buttons for "Add Cart to Load Sizing Project" and "Cart to Browser Project".



Figure 9: Adding Cart to Project

Completing the Project

Products from the cart will now have been added to the selected project as shown in Figure 10: Project Home Page with Materials.

Project Information

Configuration | Notes | Project History | Document Center

 Project Information	 Customer Address
Name: SAM-e Tutorial	JS Consulting Engineers Ltd.
Project Number:	123 Palm Street Unit 1
Customer:	Ogdensburg, New York, United States
Created: 2013/08/28	13669
Required Date:	Customer Contact
	John Smith
	user@humidity.com
	555-555-5000

Bill Of Materials






Zone	Description	Part #	Quantity	
<input type="text" value="Zone Tag"/>	Header SAM-e, 48" 12" Centers	1506798	<input type="text" value="1"/>	
<input type="text" value="Zone Tag"/>	Steam Tube, SAM-e, 36in Type A, 304SS	1503393	<input type="text" value="4"/>	
<input type="text" value="Zone Tag"/>	Mounting Frame, SAM-e 27in - 51in	1503470	<input type="text" value="1"/>	
<input type="text" value="Zone Tag"/>	Inlet Kit1, SAM-e, 1.75	1503479	<input type="text" value="1"/>	

Figure 10: Project Home Page with Materials

From this page, projects can be tagged to a specific Zone. To do this, type a new tag where it says **Zone Tag** and click elsewhere on the page to commit the value.

Quantities can be edited in a similar fashion, while entire lines can be deleted by clicking the delete button ().

Project Submittals and Requesting a Quotation

On the project home page under the **Document Center** tab shown below, you can export a submittal package as well as other useful information. You can also request a quote from your local Nortec agent.

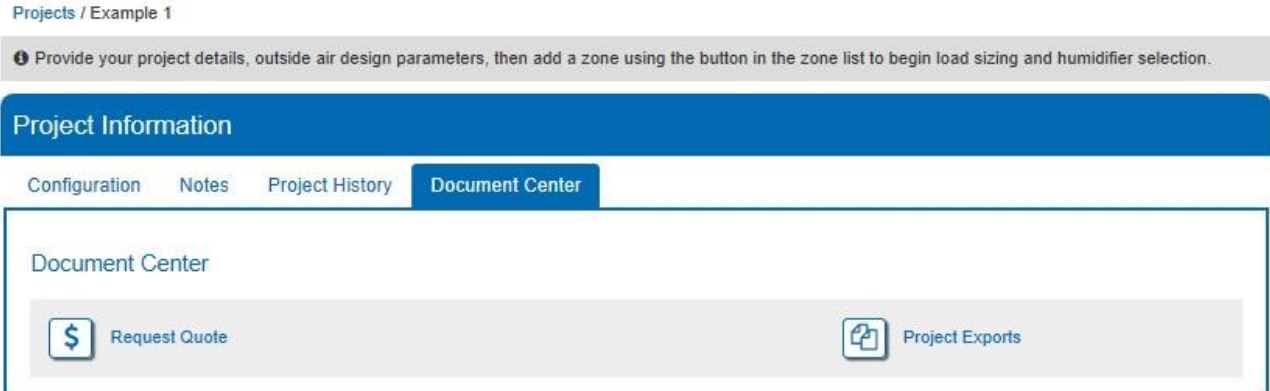


Figure 11: Document Center

Selecting **Request Quote** will bring up a dialogue box allowing you to enter any comments or and notes and to confirm your contact information. Selecting the **Request** button will send a pricing request to the agent along with a copy of the project. Your local representative will contact you shortly regarding pricing and further information.

Selecting **Project Exports** will bring up a dialogue box as shown in Figure 12: Export Center.

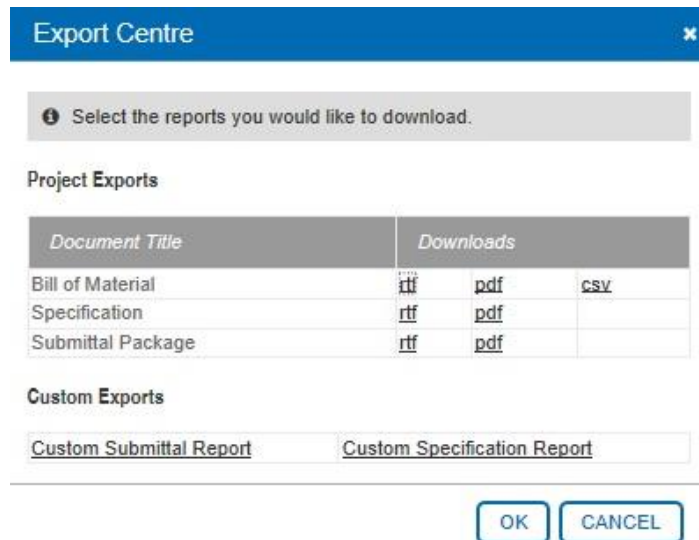


Figure 12: Export Center

Help can generate the following documents:

Bill of Material: A listing of all of the product selected, broken down by zone.

Specification: An engineering specification for incorporation into a larger mechanical specification. Help dynamically builds the specification based on selected product to save time and reduce editing.

Submittal Package: A detailed package containing relevant information, drawing, wiring diagrams, and a bill of materials for your project.

Congratulations, you have successfully completed this tutorial!

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