Horton eRev Fan Selection Software

Using the Horton eRev Fan Selection Software

The Horton eRev Fan Selection Software allows the user to draw from the fan portfolio with the greatest depth and breadth in the industry. Allowing a variety of inputs and selections, the flexibility of the software enables the user to configure the correct product for nearly any application.

Navigating the Main Headers

SELECTION — Main Page for Managing Product Selection

The selection page is the default page where the user will start managing product selection every time the software is opened. This is also the main working page where the user will drive the majority of the configuration.

Standard Inputs
  (See CONFIGURATION -> Selection Settings to set user default units of measure)

Air/Gas Density
  (See Conditions)

The SELECT button is used after every change or addition; if you do not click the SELECT button, your changes will not refresh the Selections table.

Click between diameter and special tabs.

Choose desired fan type, if known.

Select CHANGE ROTATIONS/SILHOUETTE to modify these fields; they are for display only. (See Change Rotation/Silhouette).

Conditions - Modifying Operating Conditions: Density and Temperature

Select Input Method

Calculated – Select and input Altitude, Temperature and Humidity.

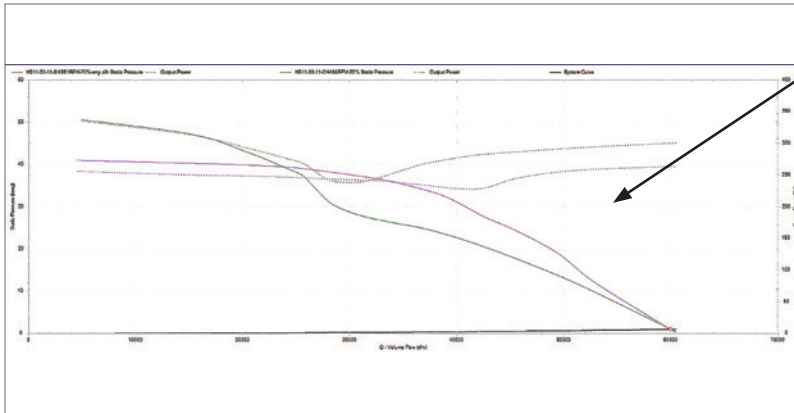*For gases other than air, select Gas Type "Other" and input STP gas density.*

Manual – Select and input density value directly in bottom field, "Manual Density."

CANCEL to delete changes, CONFIRM to save.

Click the SELECT button to refresh the Selections table.

Change Rotation/Silhouette

Fans will perform differently when an airflow obstruction is immediately behind the discharge side of the fan.

Horton fans tested wth a representative airflow obstruction are indicated with "YES" in the Engine Silhouette field and "eng silh" in the Product Code.

Select the application fan configuration. Note the rotation of the fan and orientation of the fan/radiator.

Select ANY for general inquiries or if not known.

If the application has an engne or motor immediately behind the discharge of the fan, directly in the airflow, select YES. If unknown, select ANY.

CANCEL to delete changes, APPLY to save

Click the SELECT button to refresh the Selections table

Selection Results Table

Unchecking AUTO PREVIEW will hide the curves as default.

Click on Hide Preview

or

Click and drag the gray frame to adjust the size of the preview pane.

Right-click on any column heading to open the Column Chooser feature.

• Sort Rows
• Re-Order Columns
• Hide/Unhide Columns

Selection Results Table - Key Descriptions

Immersion **–** Horton fans are tested at multiple immersions to allow the best data to the user. The value shown is the percentage of fan immersed into the shroud. This is a reference for the user to determine the immersion needed for optimum performance.

Product Code **–** This text is a physical description of the product the user has configured. Use this information when contacting your Horton Account Manager to get more data on a product.

Navigating the SELECTION Sub-Heading Bar

VIEW TECHNICAL
Selecting VIEW TECHNICAL when a fan selection is highlighted allows the user to display all detailed information about that product. The information can be printed or exported from this view.

PRINT
A printer-friendly PDF version of the product information can be made from the SELECTION page or from VIEW TECHNICAL.

ADD TO PROJECT
The user can save selections to individual projects, or add selections to existing projects. See PROJECTS.

EXPORT
The user can export the product selection details to an Excel file; this can be used for a single fan highlighted or for multiple fans highlighted.

BACK ARROW
Return to the SELECTION page after viewing other pages.

PRODUCTS - Helpful Tips to Guide Product Selection

If the user knows the specific Horton fan model or family, this section offers an easy way to narrow down the search for the desired product.

Unselect all by clicking NONE to allow you to manually narrow your selection by individually choosing each model.

Use the FILTERS button to look for models with specific diameters.   Select FILTERS, then Diameter to activate the minimum and maximum fields. After making your entries, select APPLY, and click FILTERS again to hide, if desired.
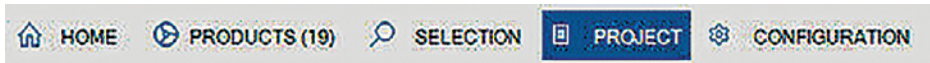
Choose CONTINUE when ready to activate your selection(s) to bring the user to the SELECTION page.

Click the SELECT button to refresh the Selections table.

PROJECT — Saving Selections and Details

To save specific selections, the user can highlight one fan and then click PROJECT in the header bar or in the preview section.

Enter information and SAVE. The software will save the project to the user's computer in a location of the user's choosing.

Users can open previously saved projects by selecting OPEN when in PROJECT.

With an open project, users can add additional products by clicking back to the SELECTION page, highlight a product selection, and ADD TO PROJECT.

Name the project

Enter the reference notes

For customer-specific selections, enter the customer contact information

CONFIGURATION – Managing User Settings
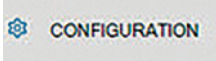
In the CONFIGURATION pop-up window, the user can customize their license of the Horton Fan Selection Software.

Click CLOSE to discard or make no changes; click SAVE AND RESET to save settings and reset inputs.

NOTE: Clicking SAVE AND RESET while in the middle of a product selection process resets all inputs on the SELECTION page. It is recommended to make configuration changes prior to starting the selection process to avoid unwanted reset of selections.

ADDRESS DETAILS
Address Details allows the user to update their company contact information. This allows Horton representatives to contact the user with product information and support.

SELECTION SETTINGS
Selection Settings is the location for managing details on how the user normally inputs details into the software. This includes setting default units of measure and tolerance settings for matching inputs.
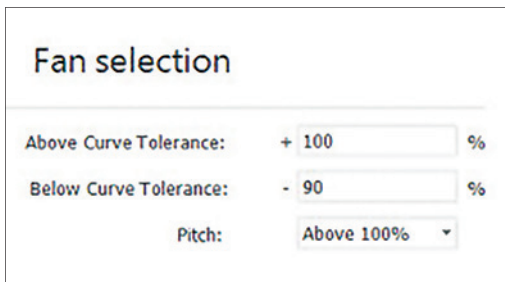
Modifying tolerance allows adjustment of what is displayed by the software, by percentage, above and below the target volume.

PROGRAM UPDATES
Horton will periodically push updates to the software. Depending on the users' internet access, the settings for how updates are received may be changed. If the user selects Check for Updates "Manually", it is important that the user periodically clicks the CHECK FOR UPDATES button at the bottom of the page.
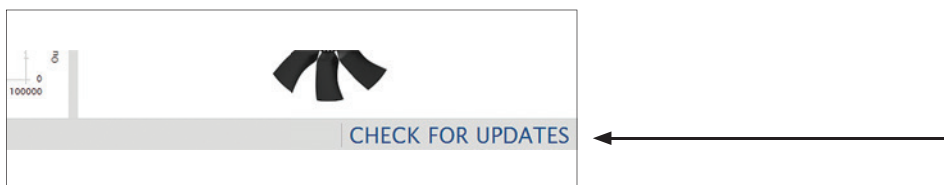
Additional Information

Data - Values are derived from Horton-tested product in the Horton Cooling System Simulator wind tunnel which is designed to AMCA 210 specifications. Testing is done in flat plate shroud (orifice plate) and bell-mouth shroud configurations at multiple tip clearances and immersions, as well as in combination with engine silhouettes.

Sound - Values are based on measured or calculated test results as sound power (dBA) as per AMCA 300. These calculated guidelines are for reference to be used for relative comparison between products in the Horton Selection Software. Comparisons to data produced elsewhere or data physically measured in a specific application could be inaccurate.

Additional Resources

Requesting Help for Software Issues

Send an email to configurator.support@hortonww.com for help on software issues, concerns, or opportunities for improvement.

Requesting More Product Information

Send an email to configurator.sales@hortonww.com for the account manager or another Horton representative to review your request and respond.

Your Partner in Thermal Control
As a global leader in thermal control for power systems, Horton® offers a variety of technologies for transportation and industrial applications to operate at the optimal temperature. Our culture of innovation delivers high-performance products that last and services that help you meet your commitments.

Horton is IATF 16949, ISO 14001 and ISO 9001 certified.

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