NT8® Release Notes
Last Updated: November 25, 2022

Version 4.7 Hotfix 1
November 25, 2022

Added:

- **[V4 Only]** A diagnostic to check the humidity level after the hardware fails to fill the chamber to the minimum threshold when the humidifier is switched on. An error message will appear when the required humidity level is not achieved.

Fixed:

- A software crash resulting when scrolling the mouse on the **New Plate Type** result's window while creating a new plate type using the hardware without the plate datasheet.

Version 4.7 (BETA)
November 15, 2022

Software Improvements

Adding New Deep Well Plates Without Datasheet

NT8 version 4.7 has been improved for a better user experience. It is now possible to add new **Deep Well** plates to the plate library without the datasheet. Simply select "**I don't have the plate datasheet.**" in the **New Plate Type** wizard and follow the on-screen instructions. Read Adding Deep Well Plates for more information.

New Plate Type Library UI for Faster and Easier Plate Searching

NT8 4.7 makes it easier to locate specific plates in the **Plate Type Library** by including the new search and filter features:

- The smart **Search Plate** feature helps you find a specific plate faster. Enter the keyword for the plate you're looking for, and the results will appear instantly.

- The additional filters for **Plate Type**, **Number of Wells**, and **Visibility** are a great way to show a group of plates that belong to a particular category. To clear the filters, click **Reset Filter**.
- The **Recent Search** feature saves your keywords in case you need them again. So you don't have to type the keywords again when looking for similar plates. When you no longer need the keywords, simply remove them by clicking the **X** button.

Easily Remove a ROCK MAKER Plate Definition From the Plate Type Editor

The **ROCK MAKER Plate Definition** field has been added to the **Plate Type Editor**'s user interface. It allows you to easily remove the **ROCK MAKER Plate Definition** from the **Plate Type Editor** wizard. This is to ensure that the plate in ROCK MAKER does not refer to the plate in NT8. In addition, an RM plate can only refer to one assigned NT8 plate. Previously, the user had to delete the **ROCK MAKER Plate Definition** via the plate file.

Improved:

- **[V4 Only]** The software to prioritize filling the **Humidifier Chamber** when the water is below the minimum level before running an experiment. Previously, the chamber autofill system failed to function during an experiment, causing the humidity to not meet the set point.

Added:

- **[V4 Only]** UI messages to the **Auto Calibration**, including:
  - A tooltip in the **Auto Calibration Settings** informing the keyboard keys used in the **Manual Control**.
  - A warning message to complete the hardware preparation before running the auto-calibration.
  - An introductory message informing about the preparations to do before running the **Auto Calibration Setup**. The message will keep appearing every time the user opens the **Auto Calibration Settings** unless the "**Do not show this message again.**" has been checked.
- A message to attach an HV tip to the Channel eight of the flexible finger when creating a **Deep Well** plate.
- An **Extend** or **Retract Plate Copy Head** button in the **Verify Plate** window for the **Deep Well Station**. This feature will be hidden when the **Plate Copy** is not available.

- A **Hanging Drop Plate Type** field for any sitting drop plates in the **Plate Type Editor** window.
- A "**ROCK MAKER Plate Definition**" field on the **Plate Type Editor** UI to allow users to remove the **ROCK MAKER Plate Definition** from the **Plate Type Editor** wizard. Previously, the user had to delete the **ROCK MAKER Plate Definition** via the plate file.
- Humidifier improvements, as follow:
  - **[V4 Only]** A **Humidity Diagnostic** feature to monitor the humidity level increase when the **Task List** is running. A warning to continue running the **Task List** without humidity will appear if the humidity level increase doesn't change.
  - **[V4 Only]** A feature to postpone the **Task List** until the water chamber reaches the minimum threshold after the **Automatic mode** of the **Humidifier** has been turned on.

Fixed:
- An error where the **Deep Well Plate** in the **Task List** turned blank when running an experiment without setting it.

- The **Eject LV Tip** error sequence where the head immediately ejected the LV tips outside the **Waste Station** when the closure was opened.
- The error message in the **Aspirate Task** to disappear after the **Protein Volume** had been updated.
- **[V4 Only]** An issue where the "**Move down until touch**" feature could not be stopped during auto calibration in the **LV Tip Caddy**.
- An issue where the software showed "**LCP Syringe Control**" on the **RMI** page although the "**LCP Supported**" configuration was disabled.