

ArcReach Heater Software Update Instructions

1. Introduction

It is recommended that when performing a software update, the operator uses a USB flash drive that has a storage capacity of at least 1 GB for the update procedure.

Sections 2 and 3 instructions only need to be completed if a user does not have a USB flash drive with a FAT32 or FAT file system format. Skip to Section 4 if this does not apply. If you are unsure about your USB flash drive's file system format, verify the format type by following the steps listed in Sections 2 and 3.

Section 4 instructions outline the steps required to download the ArcReach Heater software update file online and how to store that update file on a proper USB flash drive.

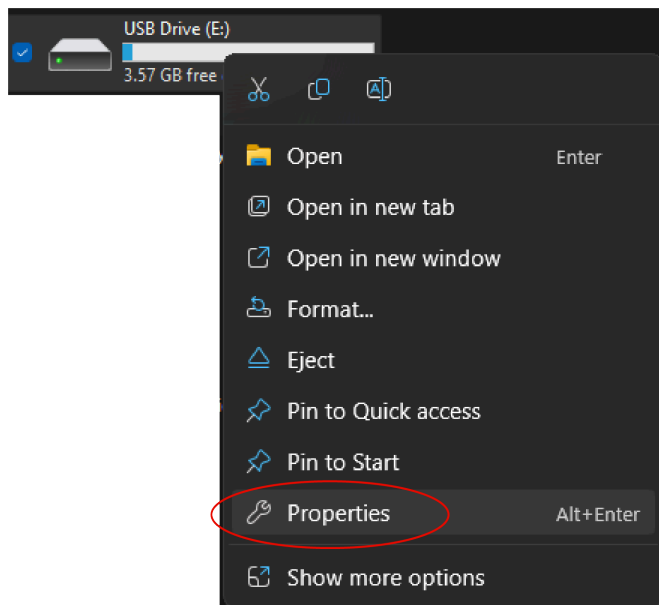
Section 5 instructions explain how to perform the actual system update by taking the USB flash drive (that now has the software update file from Section 4) and loading the software into the ArcReach Heater System.

2. Verifying USB Flash Drive Format (Skip if FAT32 or FAT)

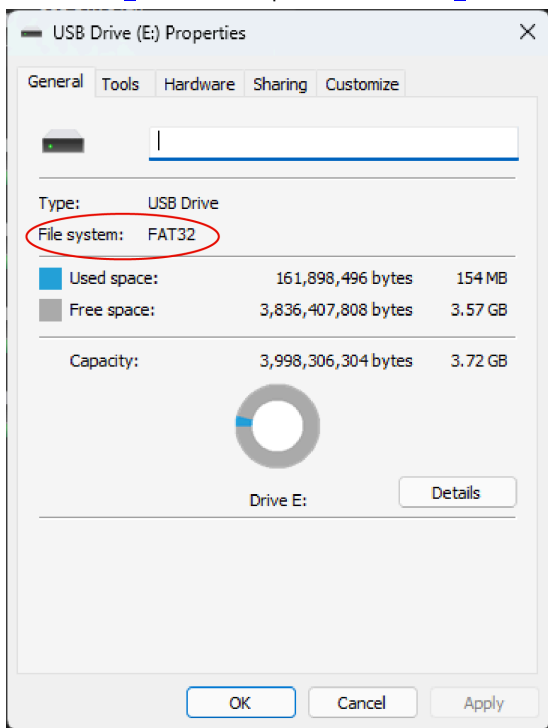
Step 1. Open **My Computer** and locate your USB flash drive in the list of devices.

Step 2. Select your USB flash drive by single clicking it.

Step 3. Right click and select **Properties**.



Step 4. In the Properties window, the File System type will be listed. The File System type should read **FAT** or **FAT32**. If it does, proceed with the software update procedure for your machine in Section 4. If it does not, proceed to Section 3.



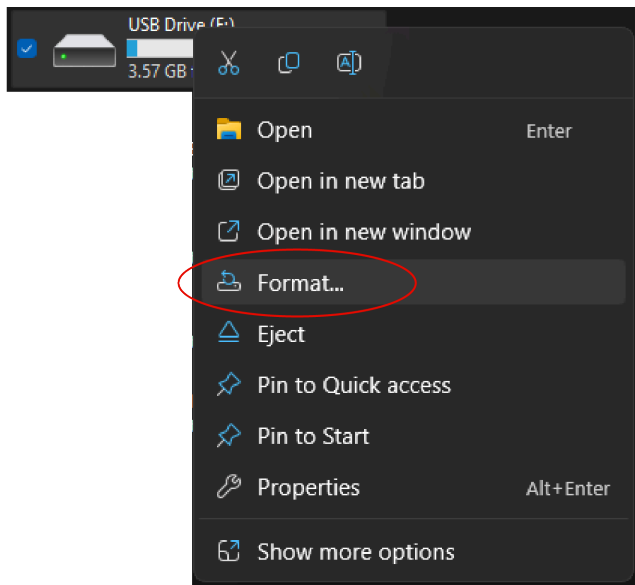
3. Formatting USB Flash Drive

Step 1. Formatting will delete any data on the USB flash drive. Copy to the PC any data on the USB flash drive that you wish to keep.

Step 2. Next, open **My Computer** and locate your USB flash drive in the list of devices.

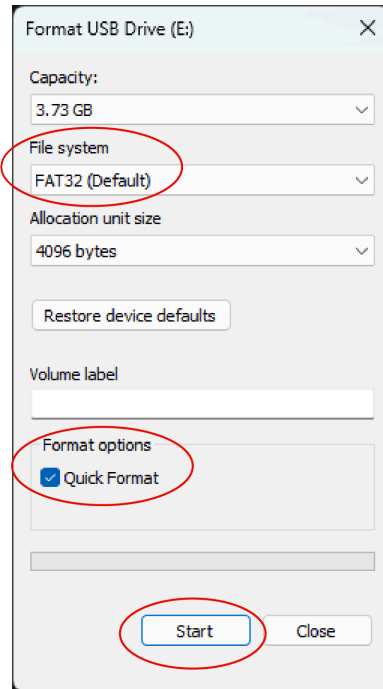
Step 3. Select your USB flash drive by single clicking it.

Step 4. Right click and select **Format**.

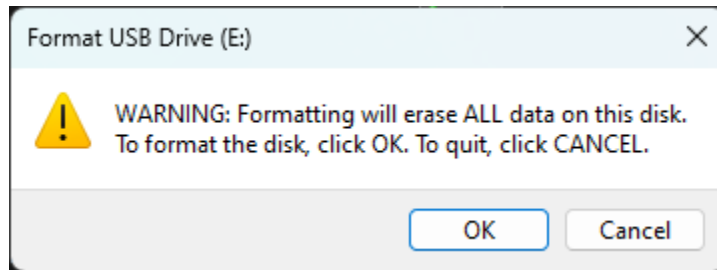


Step 5. A format configuration menu will pop up. In the **File System** drop down select either **FAT** or **FAT32**. Make sure the **Quick Format** box is checked. Click **Start** to begin.

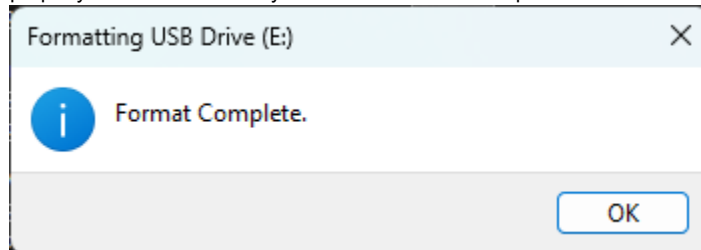
☞ FAT and FAT32 file system formats are generally not supported for drives larger than 32GB. For this reason we do not recommend using USB flash drives larger than 32GB for updating software.



Step 6. A warning will pop up indicating that all data will be erased during the format. This is why we saved all necessary data to the PC in an earlier step. Click **OK** and the format process will begin.



Step 7. A window will pop up and inform you when the format is complete. Click **OK** on the pop up, then click **Close** on the format configuration menu. The USB flash drive is now properly formatted and ready to receive the software update.



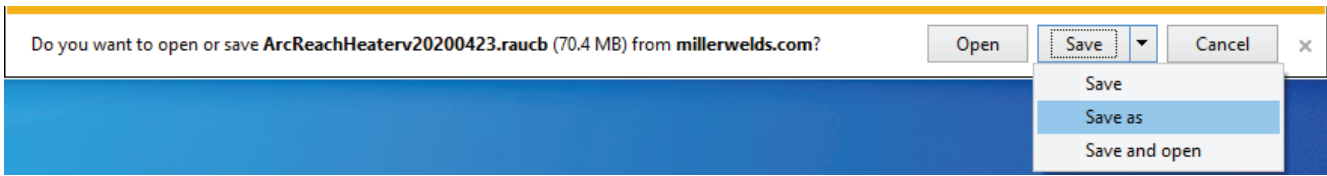
Step 8. Repeat Section 2 instructions to verify the file system is in the correct format.

4. Downloading Software Update File Online

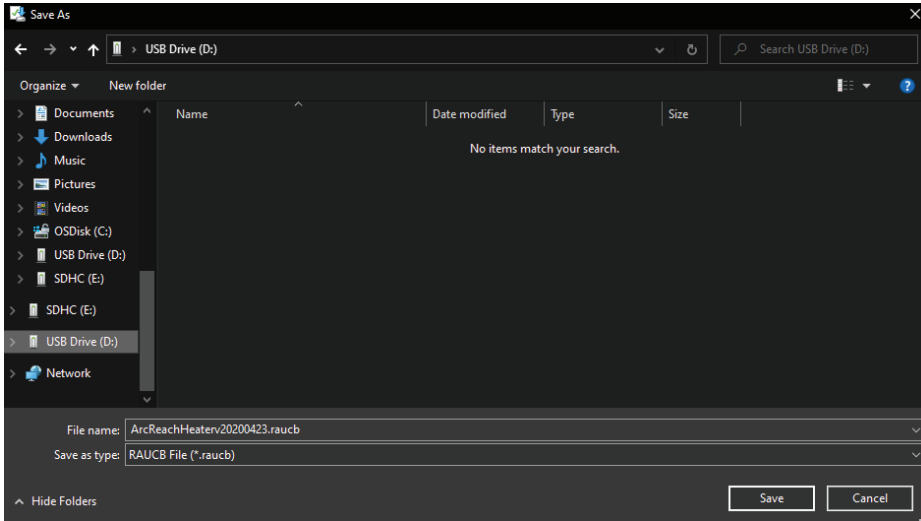
Step 1. Use a web browser and connect to the ArcReach Heater Millerwelds.com-Support-Software page: <https://www.millerwelds.com/support/software/arcreach-heater-software>

Step 2. Download the following update file from the website: **ArcReachHeater-vYYYY.MM.DD.rauch**

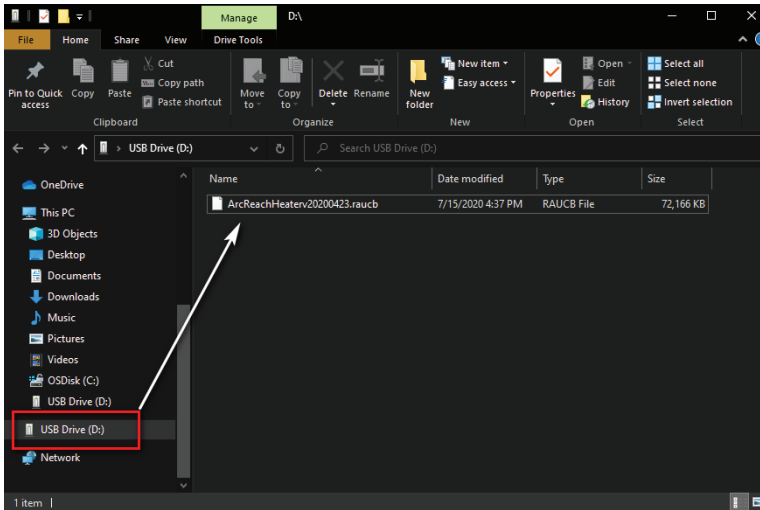
☞ The update file is located under Option 2: ArcReach Heater Equipment Software on the web page. Dates used in the system version format image are for example only and do not correspond to the latest version.



Step 3. Save the update file onto your blank USB by finding and selecting the **USB Drive** on the left and clicking **Save**.



Step 4. The USB flash drive now successfully stored the ArcReach Heater Software Update.

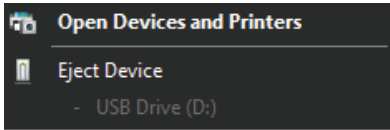


Step 5. Close any related windows that remain open.

Step 6. Click the **Safely Remove Hardware and Eject Media** icon near the bottom right corner of the Windows taskbar.



Step 7. Click **Eject USB DISK**.



Step 8. The computer will display "Safe to Remove Hardware."



Step 9. Unplug the USB flash drive from computer.

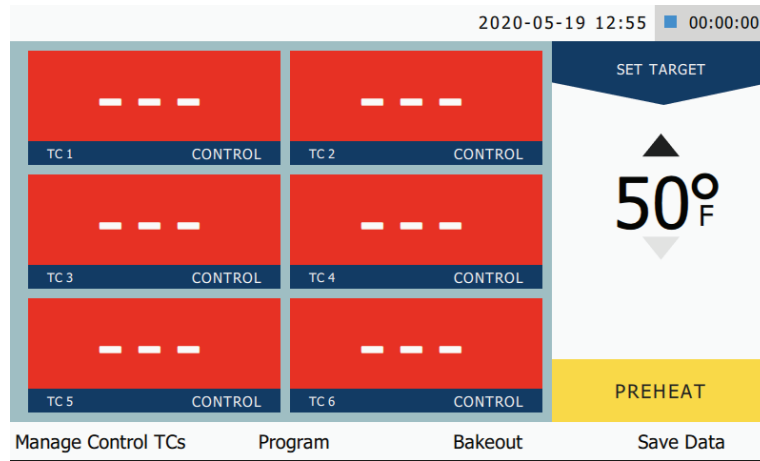
5. Loading the Software Update into ArcReach Heater System

Ensure that the ArcReach Heater is connected to a compatible power-source before following the steps outlined below.

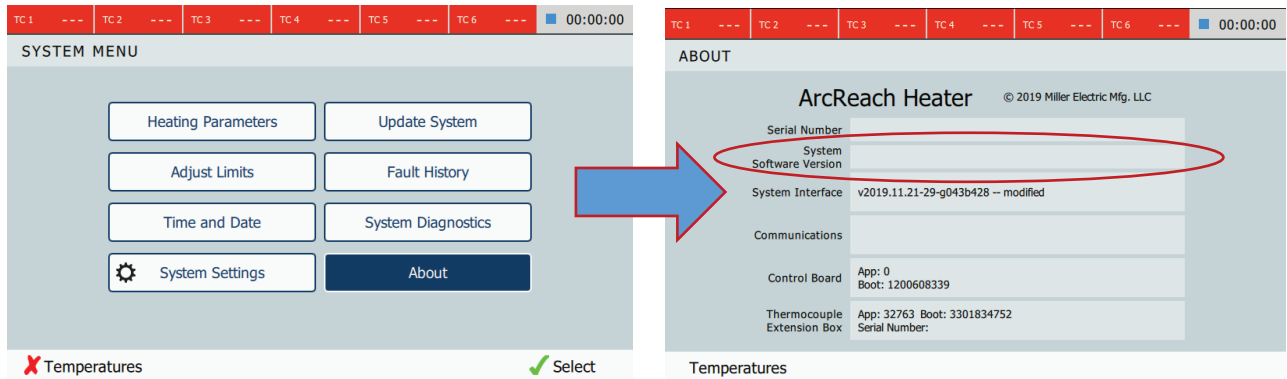
Needed: A USB stick containing the latest firmware (see Section 4).

Step 1. Place power source in electrode positive.

Step 2. Make sure the ArcReach Heater is powered ON. You should be at a Temperature screen showing the temperature read-outs of the 6 Thermocouples.

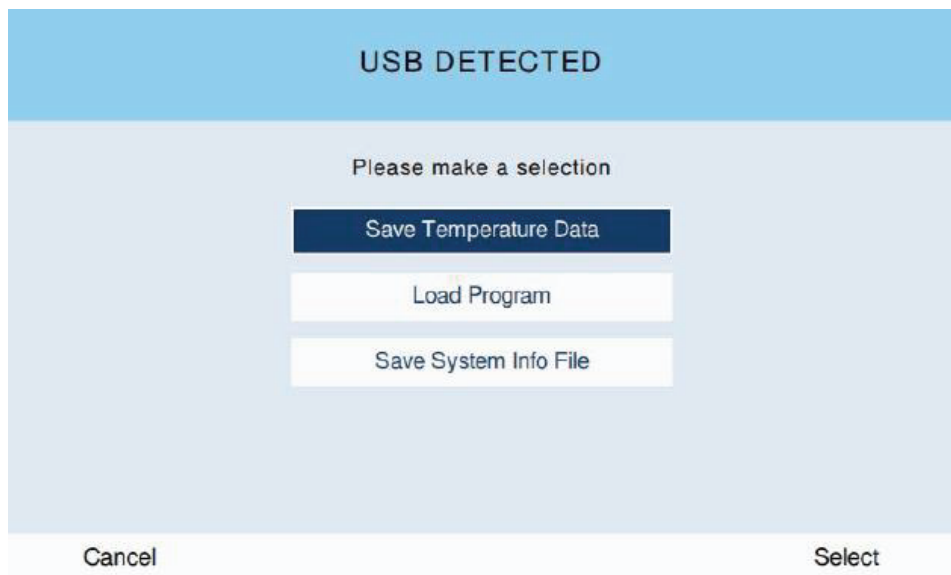


Step 3. Press **Menu** to open the system menu. You should see a list of options to pick from. Navigate to the **About** option using the soft-button arrows and choose it with the **Select** soft button. In this screen, note the **System Software Version**. You will later use this value for comparison to ensure that the update successfully took place.



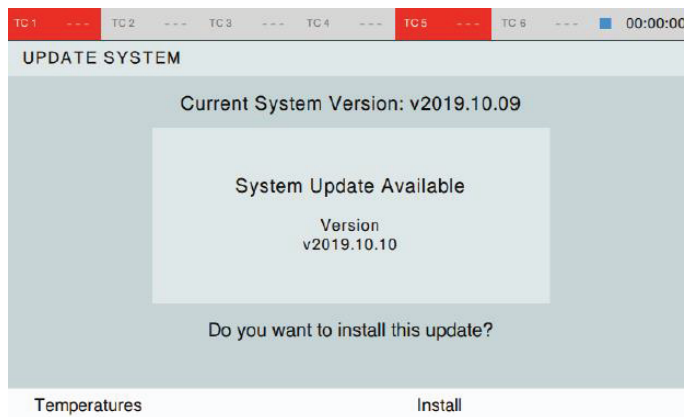
Step 4. Insert the USB stick containing the latest firmware. After a few seconds, you will be prompted with a screen showing various USB options. Navigate to the **Load System Update** option and press the **Select** soft button. If no **Load System Update** option is available, the firmware on the stick is not being recognized correctly/is not present.

Do not unplug USB flash drive or turn off power until updating is complete.



Step 5. A screen will appear asking if you would like to update to the revision found on the USB stick. Select **Install**.

Dates used in the system version format image are for example only and do not correspond to the latest version.



Step 6. A progress bar will appear as the firmware update is copied onto the user interface (UI). Once reaching 100%, you will be prompted to remove the USB stick from the ArcReach heater. Do so now.

Step 7. The display screen will go black automatically as the UI reboots. Once power to the UI returns, a readout will appear depicting that Process Control 1 of 2 is being updated. When the progress bar completes, Process Control 2 of 2 will be updated. After this completes, the unit should return to the Temperature screen (see Step 1).

Step 8. Follow the directions dictated by Step 2, and note that the System Software Version should now be updated.

Step 9. After successfully updating, turn power OFF at the welder/engine drive, allowing it to be powered off for ~10 seconds.