



Millennium Series “Run/Hold” Operation

Helps Control Run Away Temperatures When Cremating Special Cases and Helps Save on Fuel Cost and Refractory Wear

Cremating a special case can always be a challenge. With the rise in obesity in the U.S. and the increase in cremating containers other than a simple cardboard box, knowing the procedures for cremating special cases becomes essential for the responsible cremationist. The CMS Millennium Series has an automatic feature called Run/Hold that will help when cremating special cases efficiently, quickly, safely and most importantly without hazardous and unsightly visible emissions.

NOTE: When the Run/Hold program is *not* engaged, the Primary Temperature Controller will flash “HOLD”.

To engage the Run/Hold program press the Run/Hold button on the Primary Temperature Controller once, IMMEDIATELY after you think the case has ignited. Do not wait a certain amount of time, as it may be too late. Every case is different. When you see the temperature rise quickly you know that the case has ignited, and this could be after only a minute or two! The screen will flash “RUN” when the program has been engaged.

The typical run/hold program has four automatic segments:

The first segment is immediate and lasts for less than a second. The Main Chamber Temperature Controller overrides the temperature setting that it waits for before going into “low fire”. The controller actually lowers the “set-point” temperature down to 5 degrees so that the controller will go into “low fire” well before it would normally. This is because the case has ignited, and since it is a special case, it should combust without any help from the burner and added air. This also helps to slow down the rate of combustion so it doesn’t over-run the system and allow visible emissions to exit the stack.

The second segment simply holds the “set-point” at 5 degrees for 15 minutes to allow for the natural combustion of the case and container to continue on its own, combusting slower than it would with the added fire and air from the burner.

The third segment raises the “set-point” slowly over 15 minutes to 1600 degrees.

The fourth and final segment holds the “set-point” at 1600 degrees for less than 1 second and then releases the temperature controller to operate its normal program and should resume a normal controlled cremation cycle.

Once the Run/Hold program is engaged it cannot be canceled unless power to the unit is interrupted for more than 10 seconds, however the program can be modified during the current run. If the Run/Hold is pressed a second time it will pause the program in its current segment and will not resume running the sequence until the Run/Hold button is pressed again, for a third time. It will then resume from where it was paused and finish the run. While the run/hold program is in pause, the screen will flash “Hold”. During this time the “set-point” can be manually modified using the up and down arrows on the primary controller. This is advantageous because not all cases are alike, especially special cases, and sometimes a typical run/hold program will not do the trick.

One common miscalculation is when the run/hold program is engaged a little too early. The indicator for this would be if you notice that the main chamber temperature is not getting up to expectations. Maybe it reached 800 degrees but then started to go back down. This is a good indication that the case has not ignited fully and may need some help from the burner. To solve this dilemma you would press the run/hold for the second time, pausing it in its current segment. Then you would raise the “set-point” temperature to a degree that is above the current main chamber temperature (up to 1600) so that the burner and side-wall air re-engage and re-ignite the case. Wait for the temperature to rise quickly, just as you did at the start and then press the run/hold button a third time to allow the program to run as normal. If you raise the temperature all the way up to 1600 degrees it would be just as if you never used the run/hold program in the first place, so you would want to be mindful of the temperature you raise the “set-point” to when doing a manual modification.

Another common misstep that could occur with a special case is the “run away”. This is basically the opposite of the situation previously discussed. Sometimes the case actually “takes off” too soon during the third segment when the burners are coming back online. This could be a case with an extremely large amount of body fat or something similar. You will notice this situation when the main chamber temperature is significantly higher than the “set-point” temperature in the current part of the program. In other words, the second segment should really have run for longer than 15 minutes. You will also likely see extremely high temperatures in the Secondary Chamber and visible emissions exiting the stack. To tackle this problem you will first press the “run-hold” button once for the second time, pausing it in the current segment. Then you will lower the “set-point” using the up and down arrows to 5 degrees. This will manually put the system back into the second segment and drive the burner back into “low-fire” and turn off the air in the side walls of the main chamber. This should stop the visible emissions within a minute or two and lower the temperature in the Secondary Chamber as well. Wait at least 15 minutes, or more, then you will then need to press the “run-hold” button for a third time to allow the program to run as normal. Waiting until the temperature in the Main Chamber has settled down and all is running as it should, will allow you to be confident that the combustion is controlled and the case will continue as normal.

You can also press the “run-hold” button a second time after ignition of the case and not wait until it gets out of hand. If you know it is an extreme case and do not want to wait until it “runs away”, simply press the button a second time and pause it in the second segment until you feel comfortable resuming the program. Then press it a third time to resume.

Modifying the “set-point” temperature during the run/hold program will not change the pre-set programming of the controller. Everything will run as normal the next time you start a new cremation.

Modifying a run on the Run/Hold program does not change the program. The next time the program is engaged it will run the same as always

As always, if you have any questions or concerns, please contact our 24 Hour Toll Free Service Hot Line at 800.726.6120 and follow the prompts to reach a service technician. Our techs are always at your service, 24 hours per day, 7 days per week.

