

# iChemExplorer™ Software Guide

iHeat tab

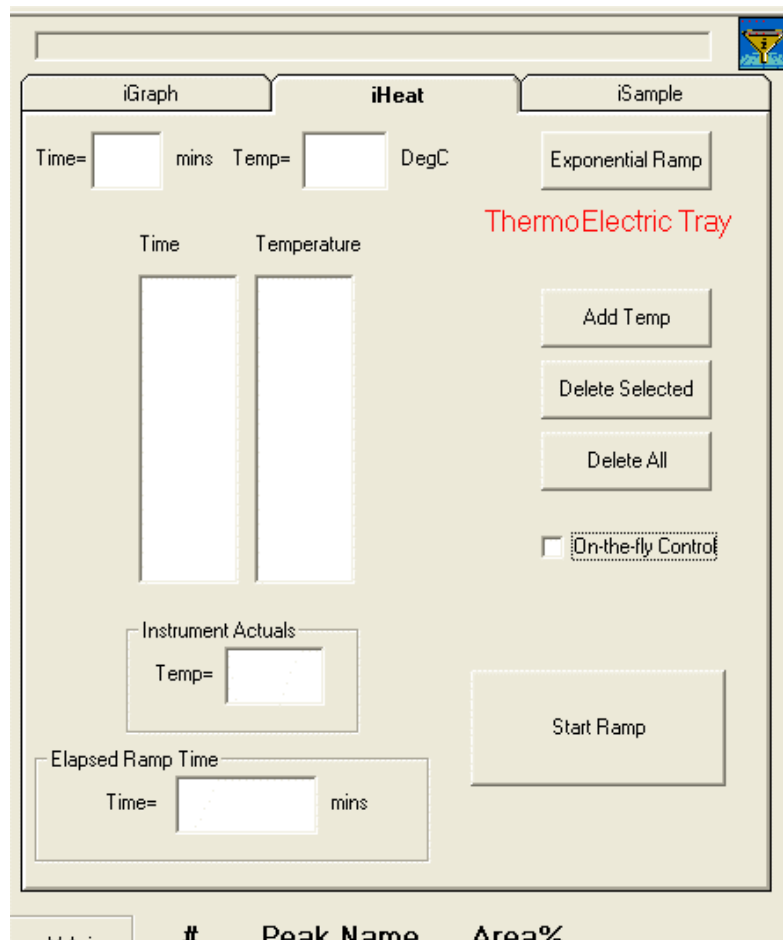
[www.iChemExplorer.com](http://www.iChemExplorer.com)

Questions to [Administrator@iChemExplorer.com](mailto:Administrator@iChemExplorer.com)

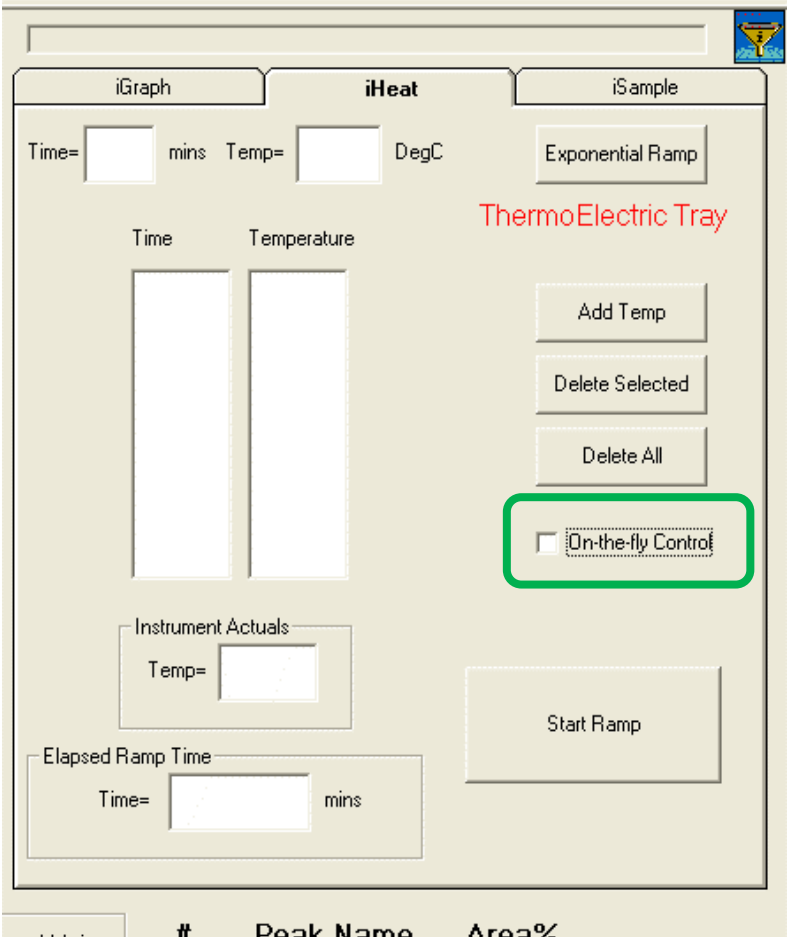


20180808 Guide for iChemExplorer v. 9.11  
iHeat Temperature Control and Recording

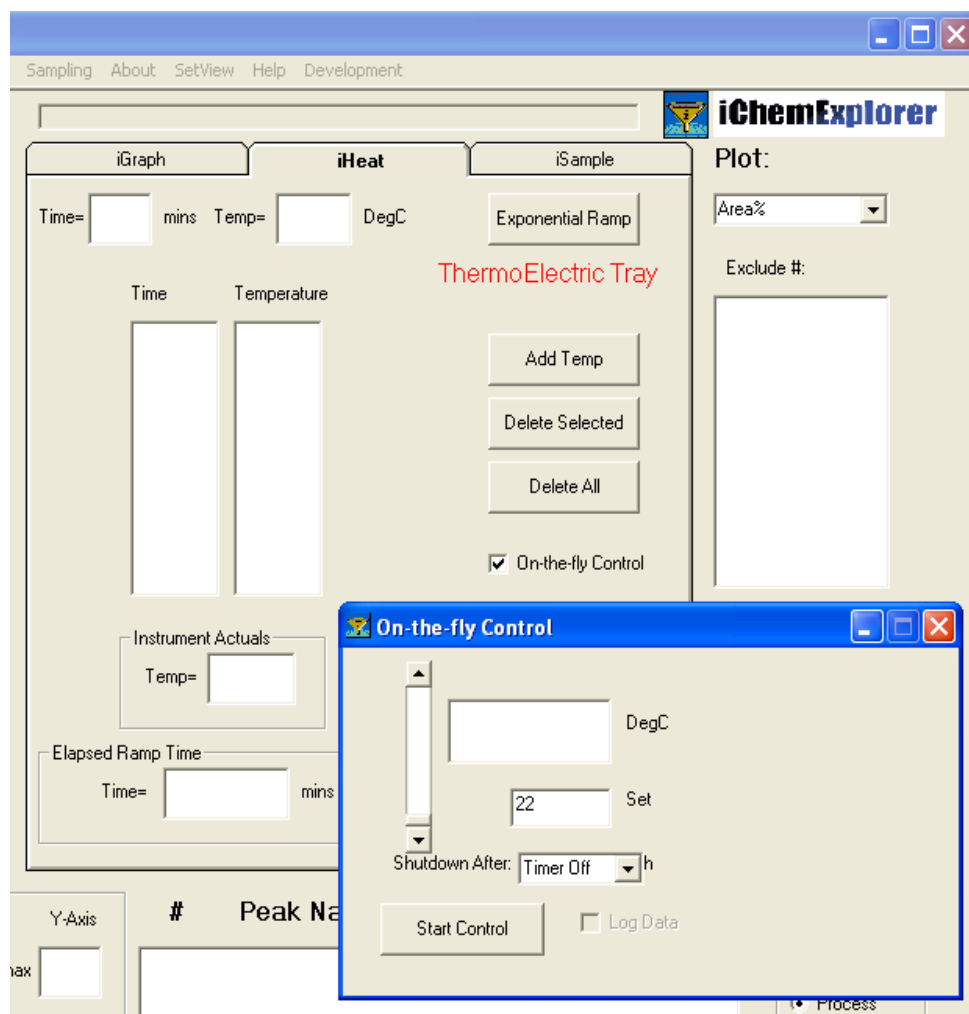
# iHeat tab to Control Temperature



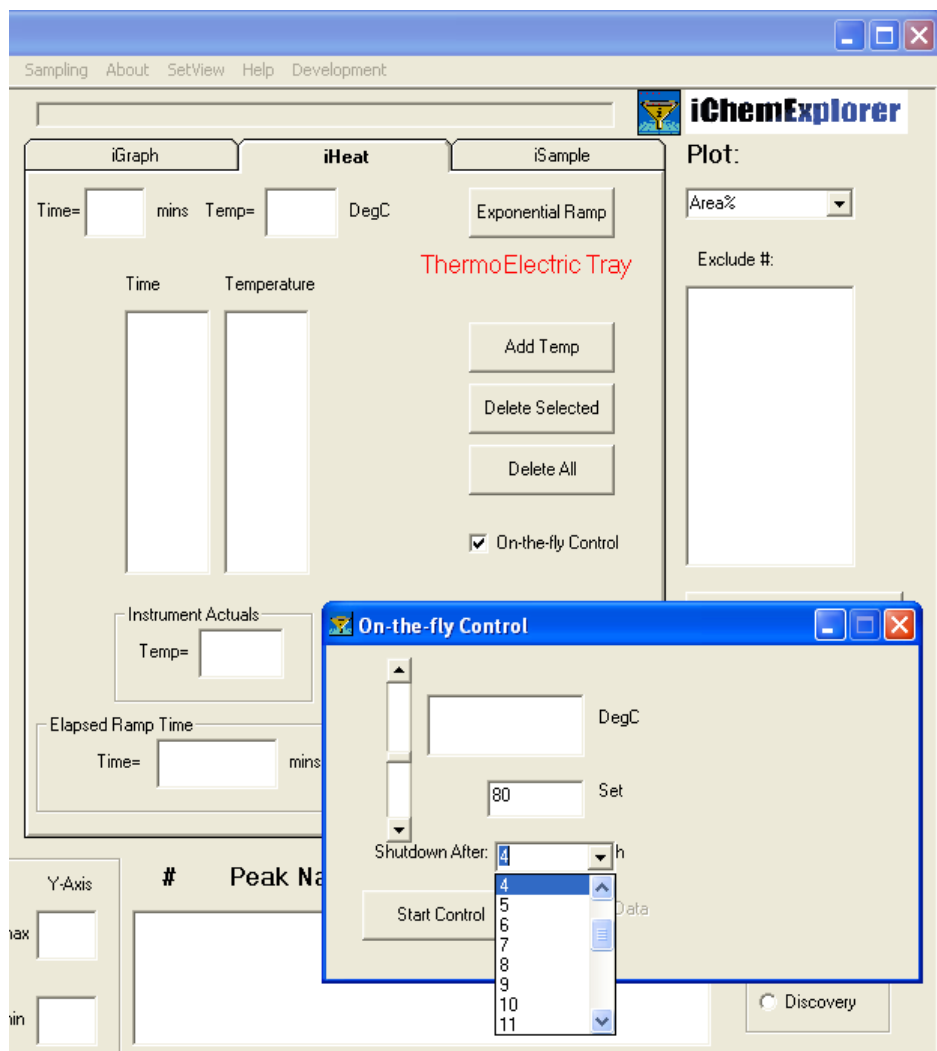
# On-the-Fly for Manual Temperature Control



# On-the-Fly Control window



# Select Temp, Time to Shutdown, Start



20180808 Guide for iChemExplorer v. 9.11  
iHeat Temperature Control and Recording

# Exponential Ramp to Control Temperature

iChemExplorer-Reaction Analytics Inc.

File Edit View Append to Design Referencing Reports Sampling About SetView Help Development

Select Vial:  Enable Overlay Mode

Reaction Tray 96 Well

Color by:

ThermoElectric Tray

iGraph iHeat iSample

Time=  mins Temp=  DegC

Exponential Ramp

Exponential Ramp

Start Temp  DegC Ramp Time  mins

End Temp  DegC Attack  1

Initial Hold Time  60 mins

Selected Vial: Real Time Profiling  On  Off

Cancel Calculate Transfer to iHeat

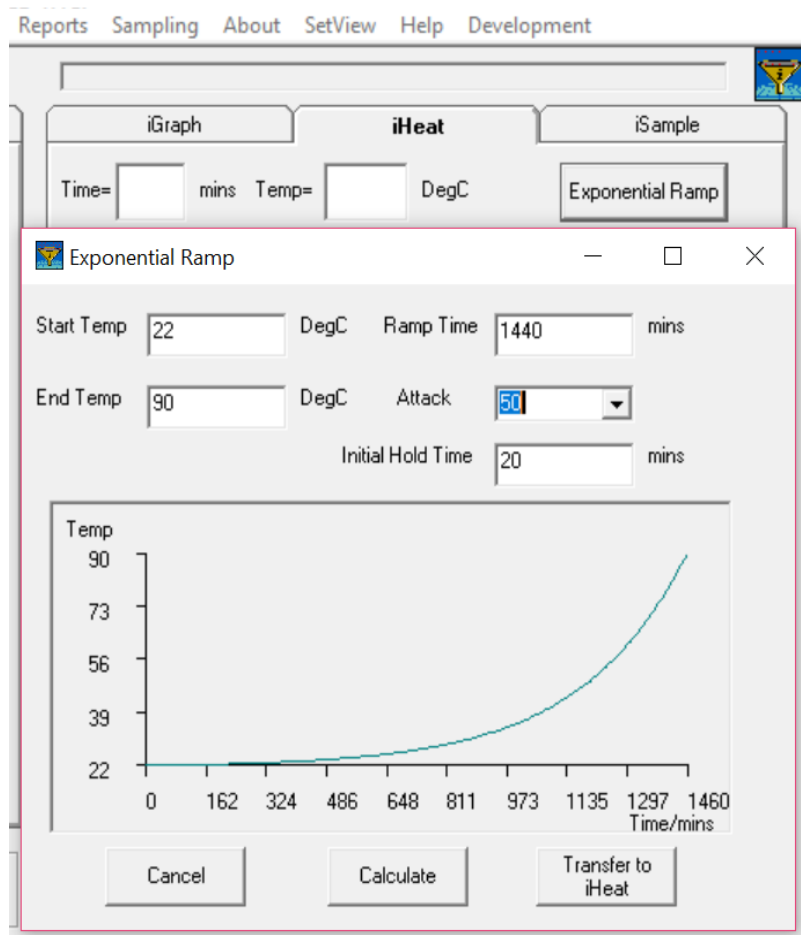


# Enter Values. Select Calculate. Transfer.

The screenshot displays the iChemExplorer software interface. The main window has a menu bar with 'Sampling', 'About', 'SetView', 'Help', and 'Development'. Below the menu bar is the 'iChemExplorer' logo. The interface is divided into several sections: 'iGraph', 'iHeat', and 'iSample'. The 'iHeat' section contains input fields for 'Time=' (mins) and 'Temp=' (DegC), a dropdown menu for 'Exponential Ramp', and a 'Plot:' dropdown menu set to 'Area%'. Below these are two vertical sliders for 'Time' and 'Temperature'. The 'Time' slider ranges from 0 to 36, and the 'Temperature' slider ranges from 22 to 22.7. Below the sliders is an 'Instrument Actuals' section with a 'Temp=' field and an 'Elapsed Ramp Time' section with a 'Time=' field. The 'Exponential Ramp' dialog box is open, showing 'Start Temp' (22 DegC), 'Ramp Time' (1440 mins), 'End Temp' (90 DegC), 'Attack' (1), and 'Initial Hold Time' (20 mins). A graph in the dialog shows a linear ramp from 22 to 90 over 1460 minutes. The graph has a y-axis labeled 'Temp' with values 22, 39, 56, 73, 90 and an x-axis labeled 'Time/mins' with values 0, 162, 324, 486, 648, 811, 973, 1135, 1297, 1460. At the bottom of the dialog are 'Cancel', 'Calculate', and 'Transfer to iHeat' buttons.



# Ramp Attack Value





# Heat Table to Control Temperature

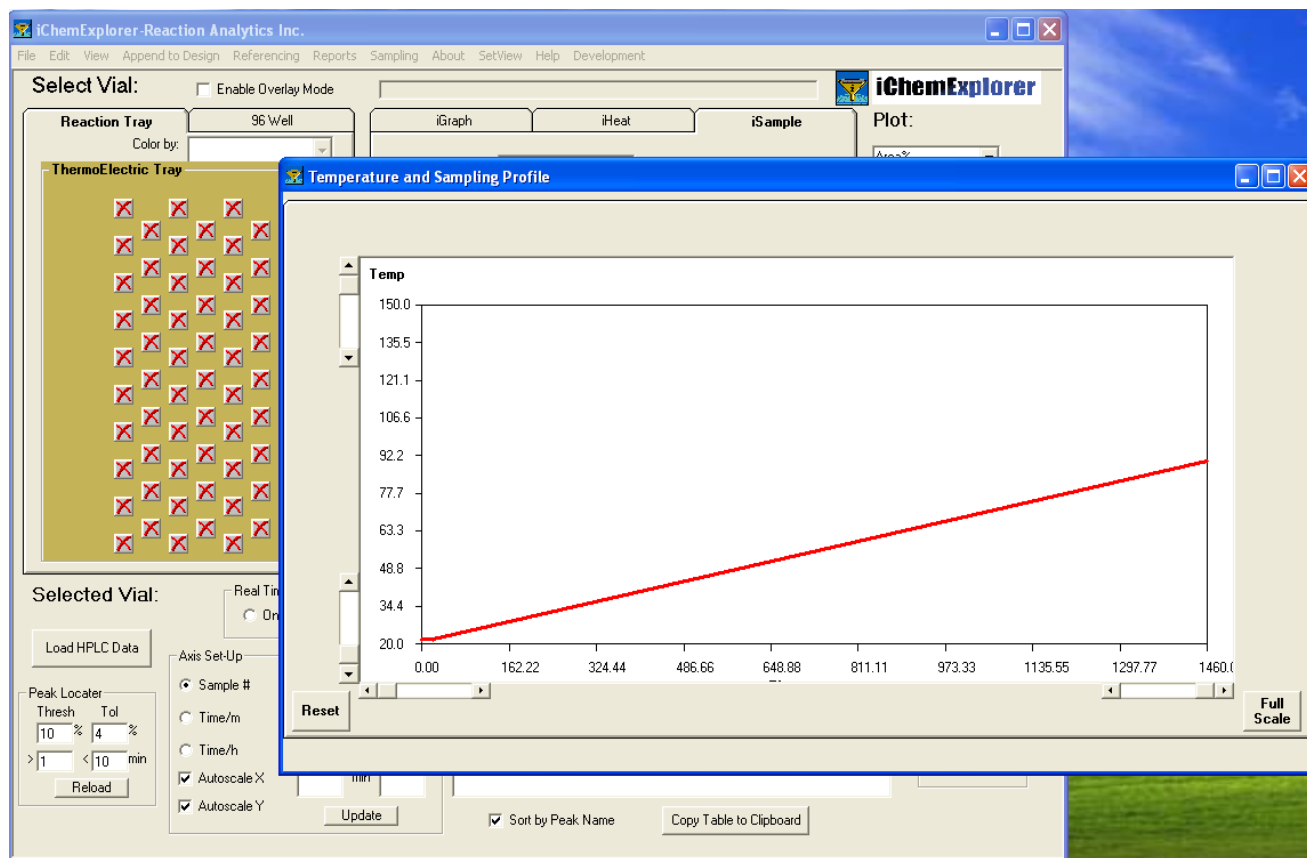
The screenshot shows the iHeat software interface. At the top, there is a menu bar with 'Sampling', 'About', 'SetView', 'Help', and 'Development'. Below the menu bar is a toolbar with a funnel icon. The main interface is divided into three tabs: 'iGraph', 'iHeat', and 'iSample'. The 'iHeat' tab is active and contains the following elements:

- Time= 1460 mins Temp= 90 DegC
- Exponential Ramp button
- ThermoElectric Tray label in red text
- Table with Time and Temperature columns:

Time	Temperature
0	22
20	22
1460	90
- Add Temp button
- Delete Selected button
- Delete All button
- On-the-fly Control checkbox
- Instrument Actuals section with Temp= [input field]
- Start Ramp button
- Elapsed Ramp Time section with Time= [input field] mins



# Temperature Ramp Profile by Heat Table



# Steps in Temperature with Heat Table

Sampling About SetView Help Development

iGraph **iHeat** iSample

Time= 383 mins Temp= 60 DegC Exponential Ramp

ThermoElectric Tray

Time	Temperature
0	22
20	22
21	37
141	37
142	45
262	45
263	60
383	60

Add Temp  
Delete Selected  
Delete All

On-the-fly Control

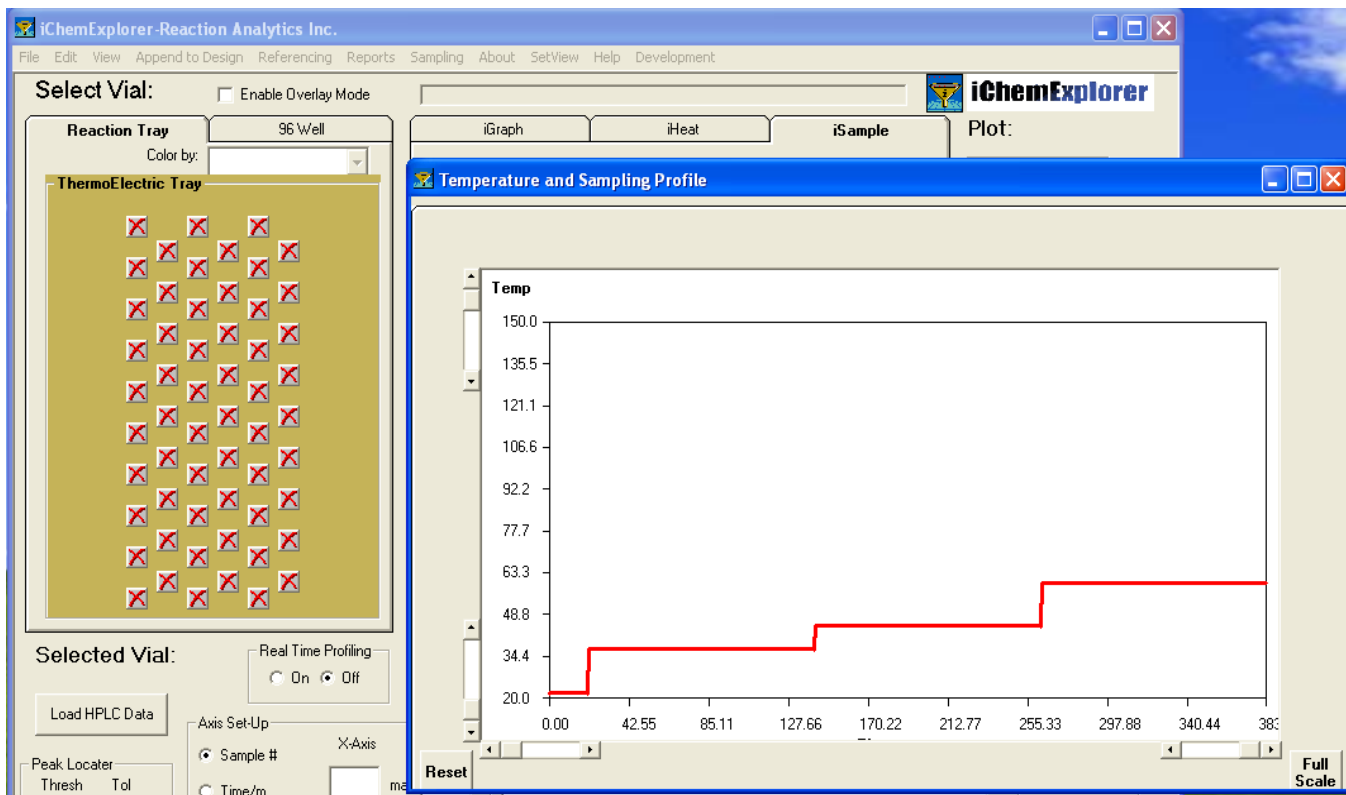
Instrument Actuals  
Temp=

Elapsed Ramp Time  
Time= mins

Start Ramp



# Temperature Profile - Steps



20180808 Guide for iChemExplorer v. 9.11  
iHeat Temperature Control and Recording

# Data Log Preference for location and time

The screenshot shows the iChemExplorer software interface. The main window has a menu bar (About, SetView, Help, Development) and a toolbar. The main area is divided into several sections: a Graph section, an iHeat section with controls for Temp (60 DegC) and Exponential Ramp, and an iSample section with a Plot dropdown (Area%). A table displays Time and Temperature data points. Below this is an Instrument Actuals section with a Temp input field, and a Ramp Time section with a mins input field. At the bottom, a table header shows '# Peak Name'. A 'Preferences' dialog box is open, showing various tabs: Excel Export, EMail, Data Handling, Reaction Tray, ini Settings, Units, Multi Sampler, Injection, Miscellaneous, Degradation, **Data Logging**, DDE Prefs, and LogD-pKa. The 'Data Logging' tab is active, showing 'Data Logging Frequency' set to 1 mins and 'iHeat Log Path' set to 'C:\Chem32\1\Data\VCE 10302016004740\'. There is a 'Browse' button next to the log path and an 'Apply' button at the bottom right of the dialog.

Time	Temperature
0	22
20	22
21	37
141	37
142	45
262	45
263	60
383	60



20180808 Guide for iChemExplorer v. 9.11  
iHeat Temperature Control and Recording

# Select Start Ramp to Start Heating

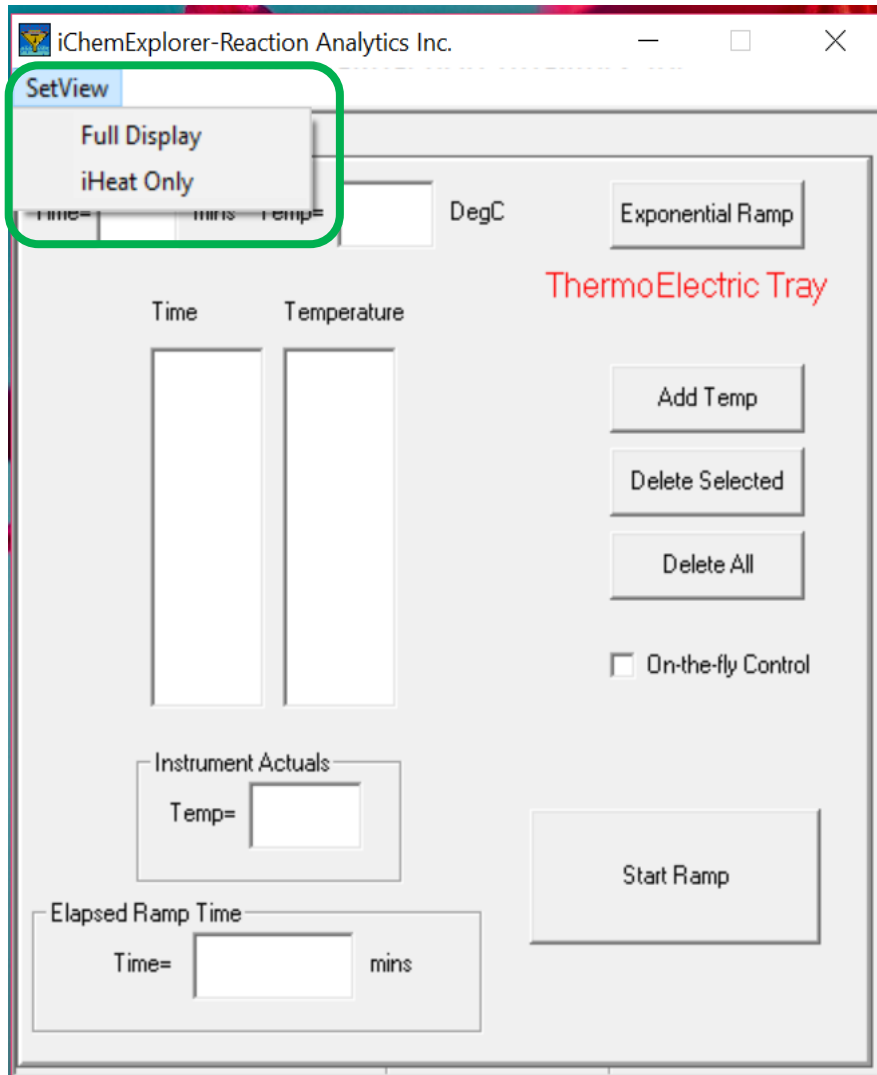
The screenshot shows the iHeat software interface. At the top, there is a menu bar with 'Sampling', 'About', 'SetView', 'Help', and 'Development'. Below the menu bar, there are three tabs: 'iGraph', 'iHeat', and 'iSample'. The 'iHeat' tab is active. In the top right corner of the iHeat tab, there is a 'ThermoElectric Tray' label. Below this, there is a table with two columns: 'Time' and 'Temperature'. The table contains the following data:

Time	Temperature
0	22
20	22
21	37
141	37
142	45
262	45
263	60
383	60

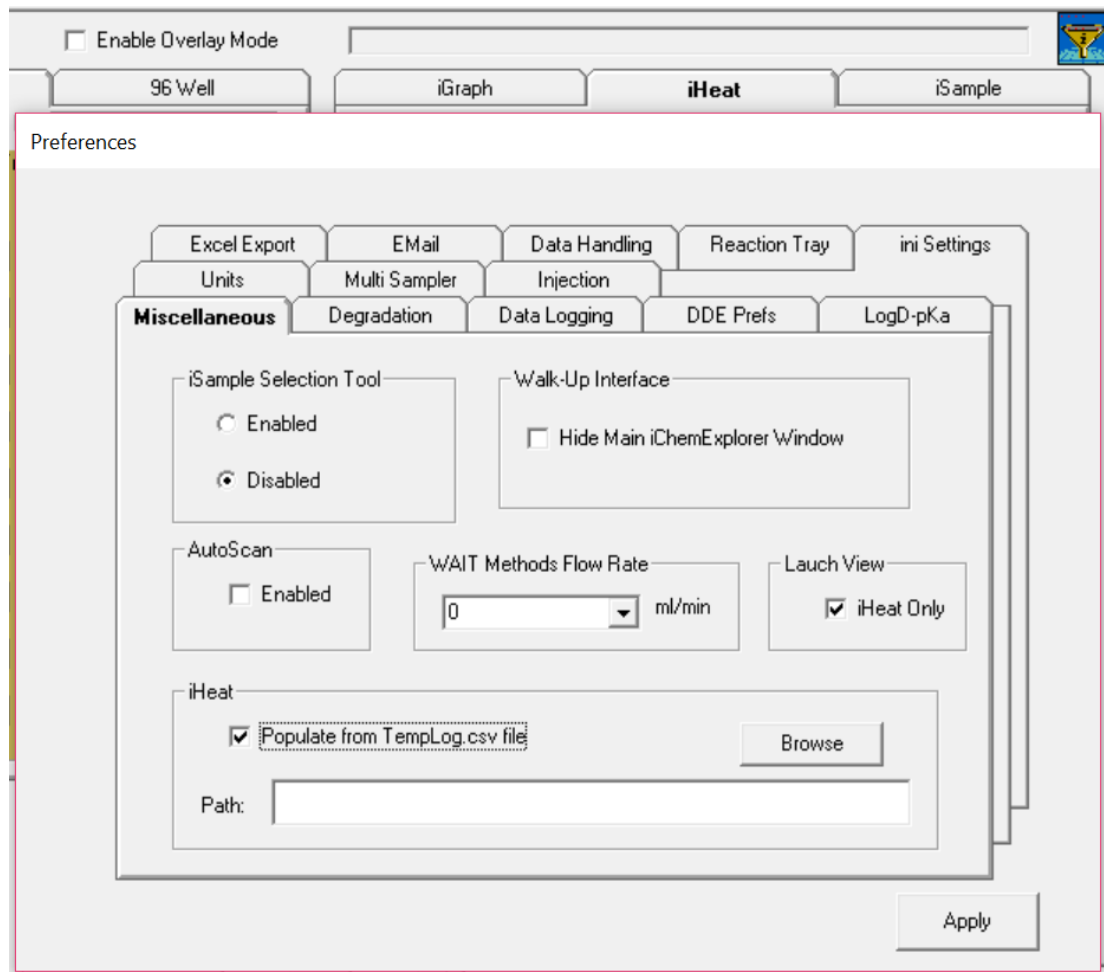
Below the table, there are three buttons: 'Add Temp', 'Delete Selected', and 'Delete All'. There is also a checkbox labeled 'On-the-fly Control' which is currently unchecked. At the bottom left, there is a section for 'Instrument Actuals' with a 'Temp=' label and an input field. Below that, there is a section for 'Elapsed Ramp Time' with a 'Time=' label and an input field. At the bottom right, there is a large button labeled 'Start Ramp' which is highlighted with a green border.



# SetView to see iHeat ONLY window



# Preference Miscellaneous iHeat selections





# Select to Load Heat Table as CSV file

