

Super short guide to Aquaresp 2

Installation

After following the guide on the webpage you can copy the shortcut "Aquaresp 2" to any desired location

it can be found in C:\AQWARESP

Using Aquaresp

Aquaresp is started by using the shortcut

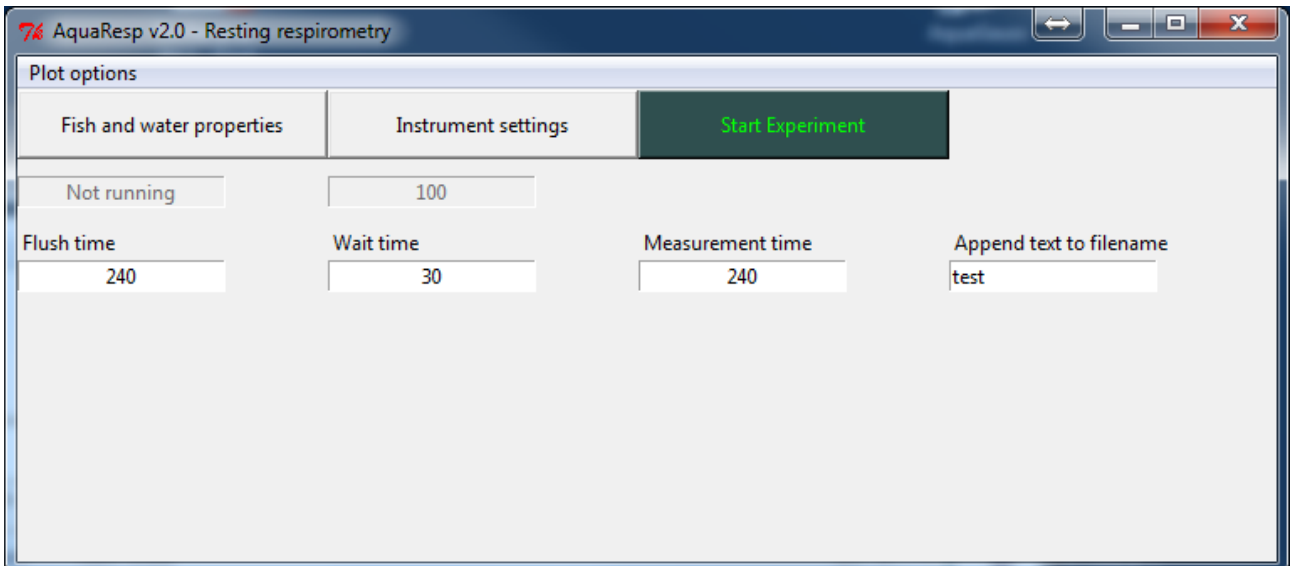
Running aquaresp beta opens 2 windows

Output and message window (any messages regarding support or errors will occur here.)



```
C:\Windows\system32\cmd.exe
C:\Users\skt734\Desktop\New folder\Aquaresp\AQWARESP\Lib>C:\Python27\python.exe
-i C:\AQWARESP\Lib\aquainterface.py
WELCOME TO:
Aquaresp 2
AquaResp is starting now
Initializing MMC...
Resetting values
```

Aquaresp main window



Fish settings

Fill in water properties and respirometer properties

| Physical properties: | Respirometer 1: | Respirometer 2: | Respirometer 3: | Respirometer 4: |
|----------------------------|-----------------------|-------------------|-------------------|-------------------|
| Temperature, [°C] | Volume[L] | Volume[L] | Volume[L] | Volume[L] |
| 25.3 | 4.0 | 0.5 | 4.0 | 10.0 |
| Salinity [psu] | Mass of fish [kg] | Mass of fish [kg] | Mass of fish [kg] | Mass of fish [kg] |
| 0.0 | 2.0 | 0.123 | 1.0 | 1.0 |
| Air pressure [kPa or mmHg] | Species | Species | Species | Species |
| 760.0 | Test | Test | Test | Test |
| O2 Solubility [mg/L] | Real volume [L] | Real volume [L] | Real volume [L] | Real volume [L] |
| 8.203 | 2.0 | 0.377 | 3.0 | 9.0 |
| pO2 air equilibrium [] | Fish density [kg / L] | | | |
| 154.08 | 1.0 | | | |
| Beta [mh/L*mmHg] | | | | |
| 53.239 | | | | |

Instrument settings

Choose oxygen sensor and channels (beta: only % air sat can be used)

If using an analog sensor, only 1 channel can be used.

| | | |
|----------------------|--------------------|----------------|
| MMC Board number | 0.0 | |
| Oxygen input % | Firesting 4 | 1 channel |
| Channel 1: | +-5V | |
| Calibration settings | | |
| Voltage 0 | 0.0 | Read voltage 0 |
| pO2 0 | 0.0 | |
| Voltage 1 | 0.8837890625 | Read voltage 1 |
| pO2 1 | 97.36 | |
| Calibration: | | |
| a | 110.16203314917126 | Calibrate |
| b | 0.0 | |

Starting Experiment

In main window, choose Flush, Wait and Measurement time. And optionally Text to append to data files.

All data will be present in C:\AQUARESP\Data\“Experiment_”datetime_appendedtext\

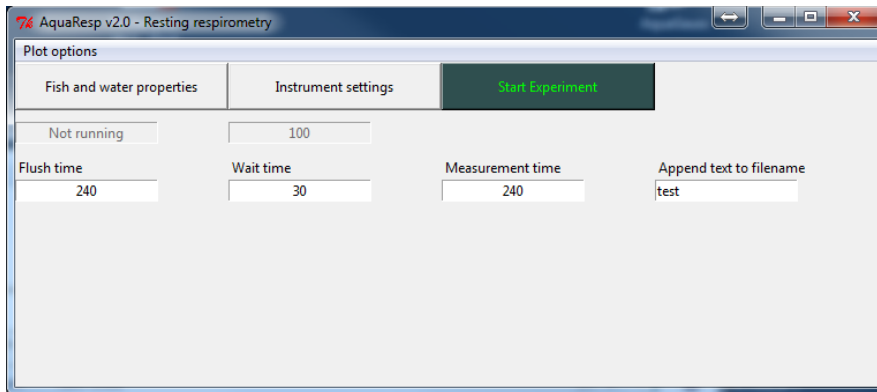
Before starting make sure oxygen logger is logging oxygen data to C:\AQUARESP\temp\Oxygen\

Using firesting – name the log file “firesting.txt”

Using presens – name the log file “presens”

When the experiment is stopped the log file is automatically copied to the above mentioned data folder

Start by pressing Start Experiment.



NB !! PLOT OPTIONS (Menu in upper left corner)

In Beta version only respirometer 1 will show