

## 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

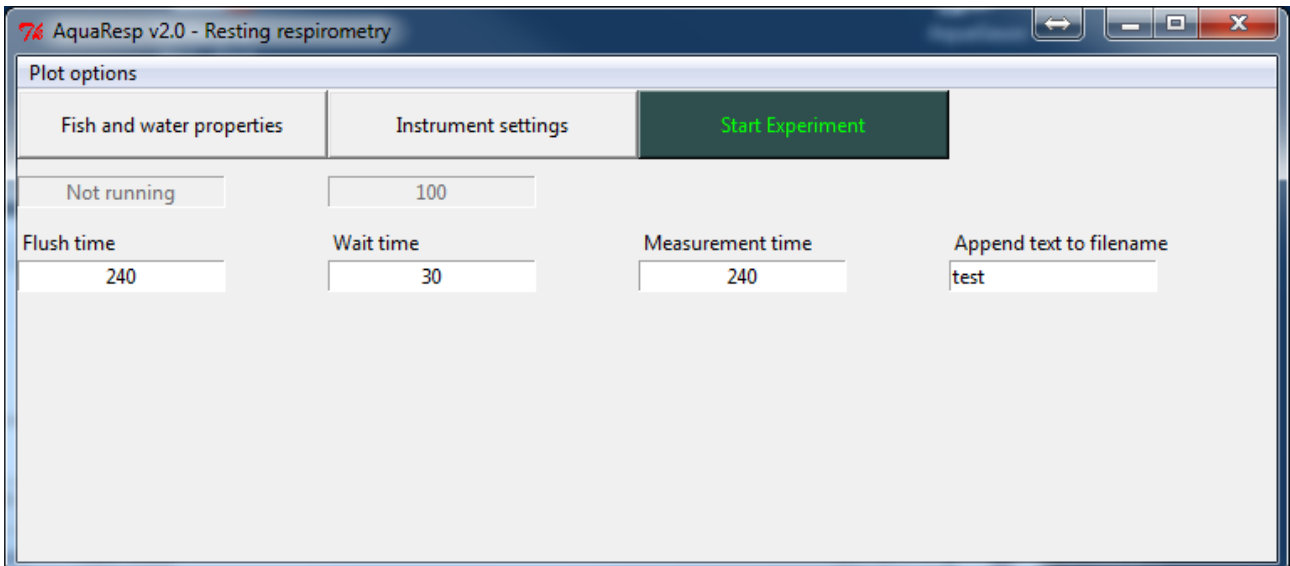
Running aquaresp beta opens 2 windows

*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\

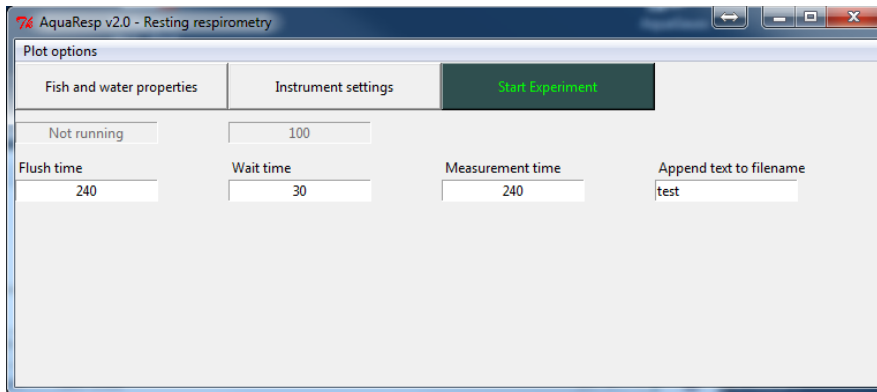
Before starting make sure oxygen logger is logging oxygen data to C:\AQUARESP\temp\Oxygen\

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**