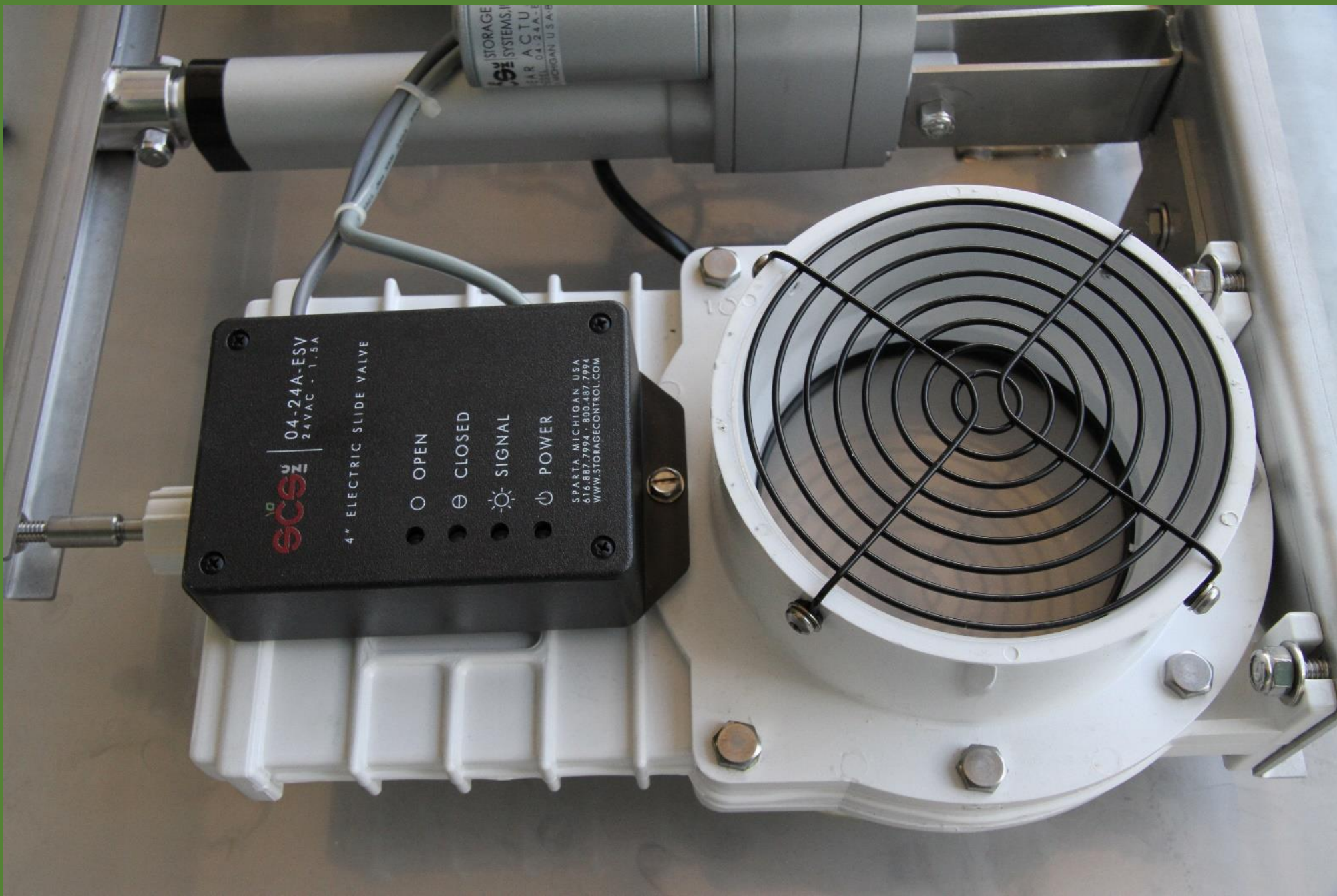
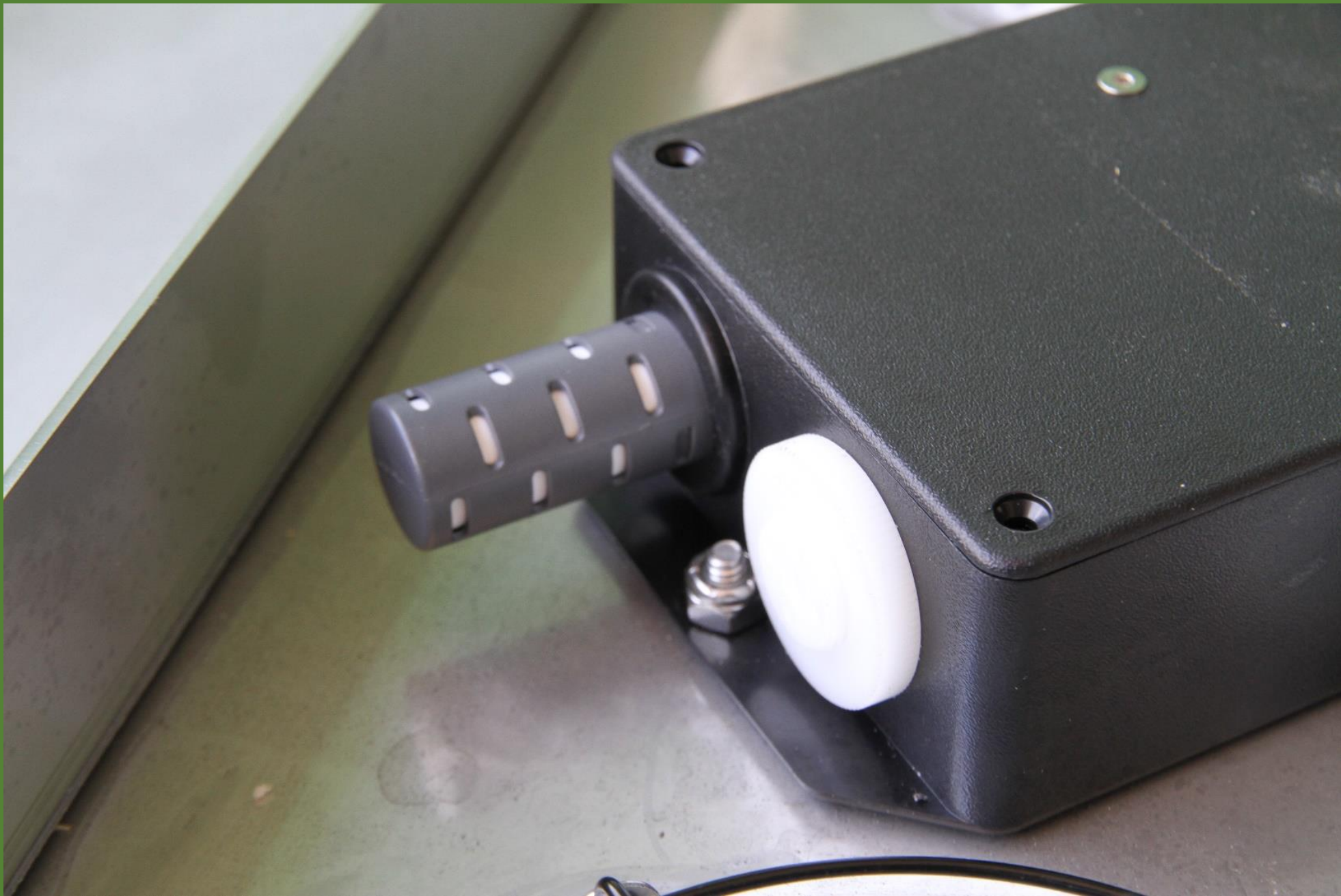
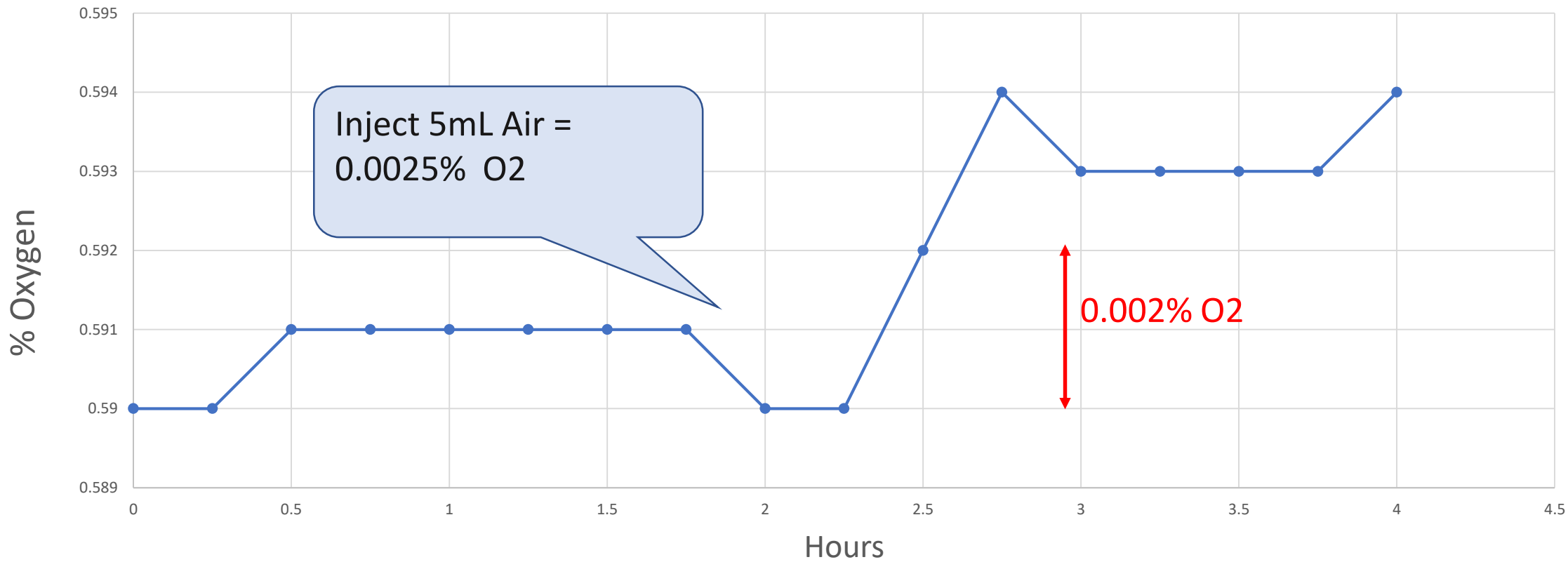


SafePod











Rm1



SafePod Live

Pod 1

O₂

1.019

%

CO₂

0.298

%

RQ

1.11

CO₂ Resp

0.8

Pod Status

Shared

Valve

Fan

N₂

Scrub



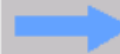
CA



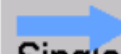
RQ



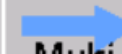
Cal



Set

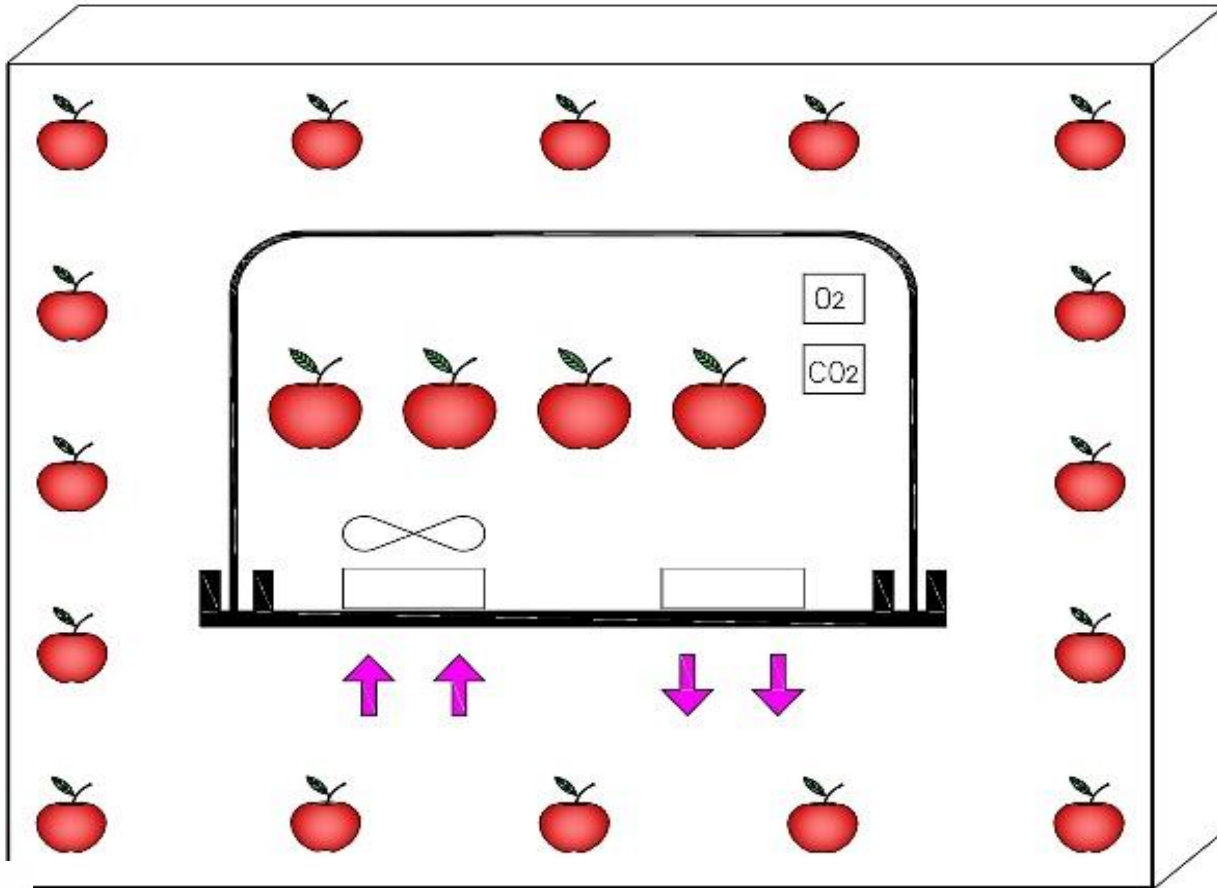


Single
Trend

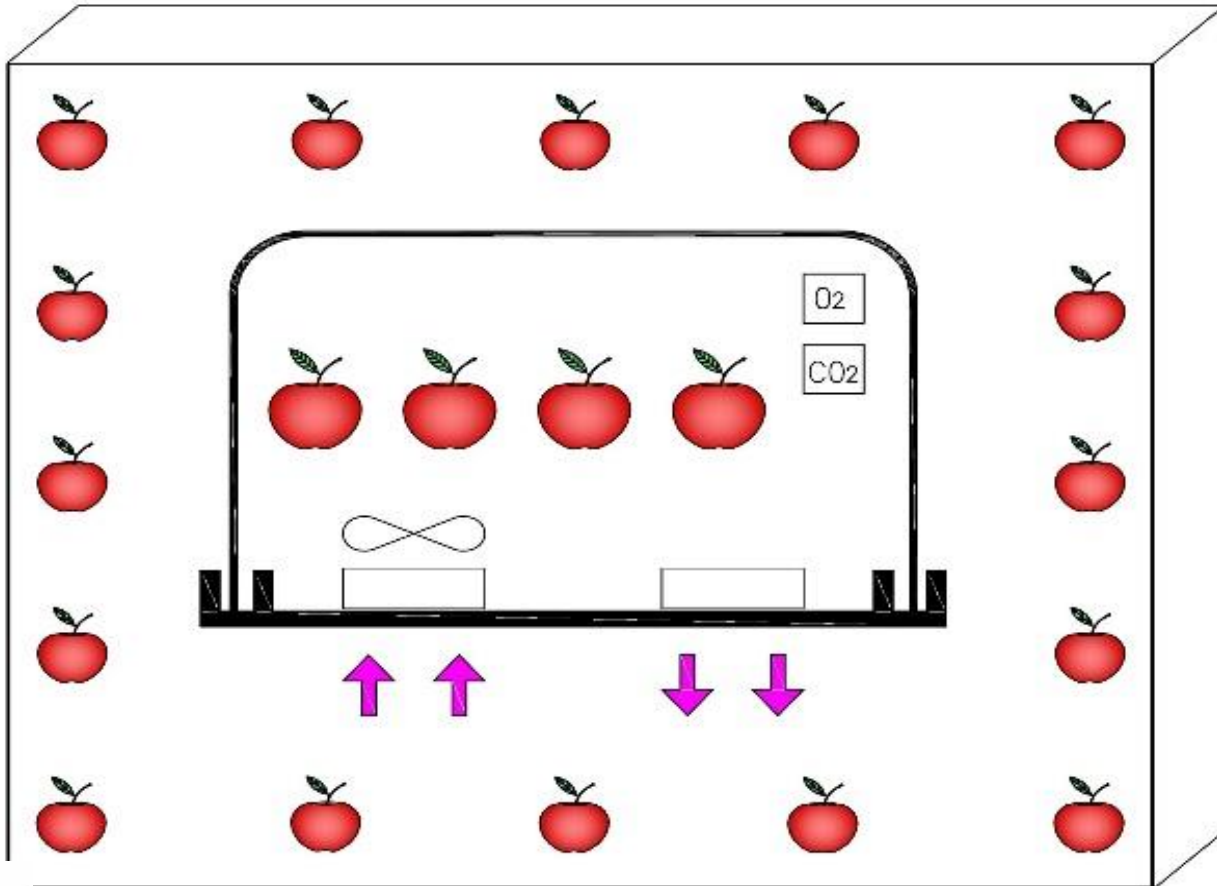


Multi
Trend

Shared Mode



Shared Mode

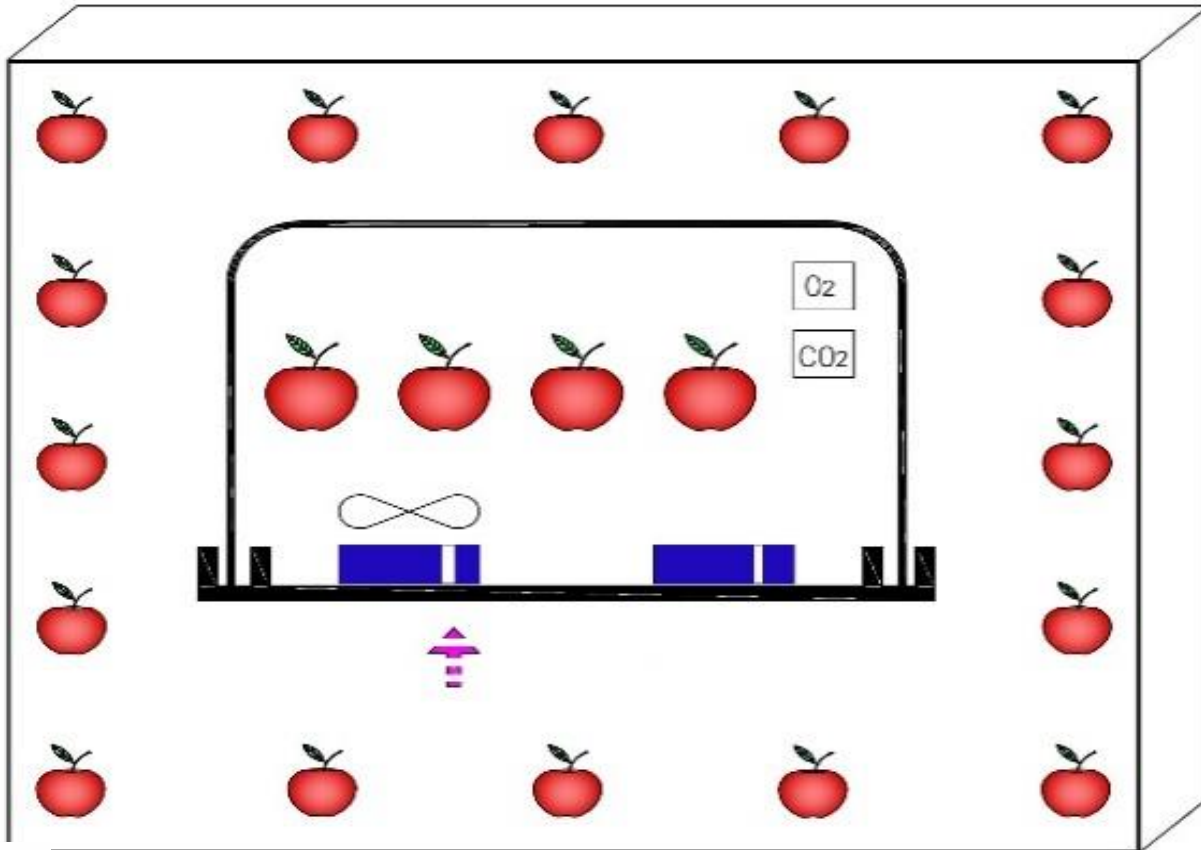


Valves Open
Fan timed

Typical Room:
1% Oxygen 0.8% CO2

Pod:
1% Oxygen 0.8% CO2

Control Mode

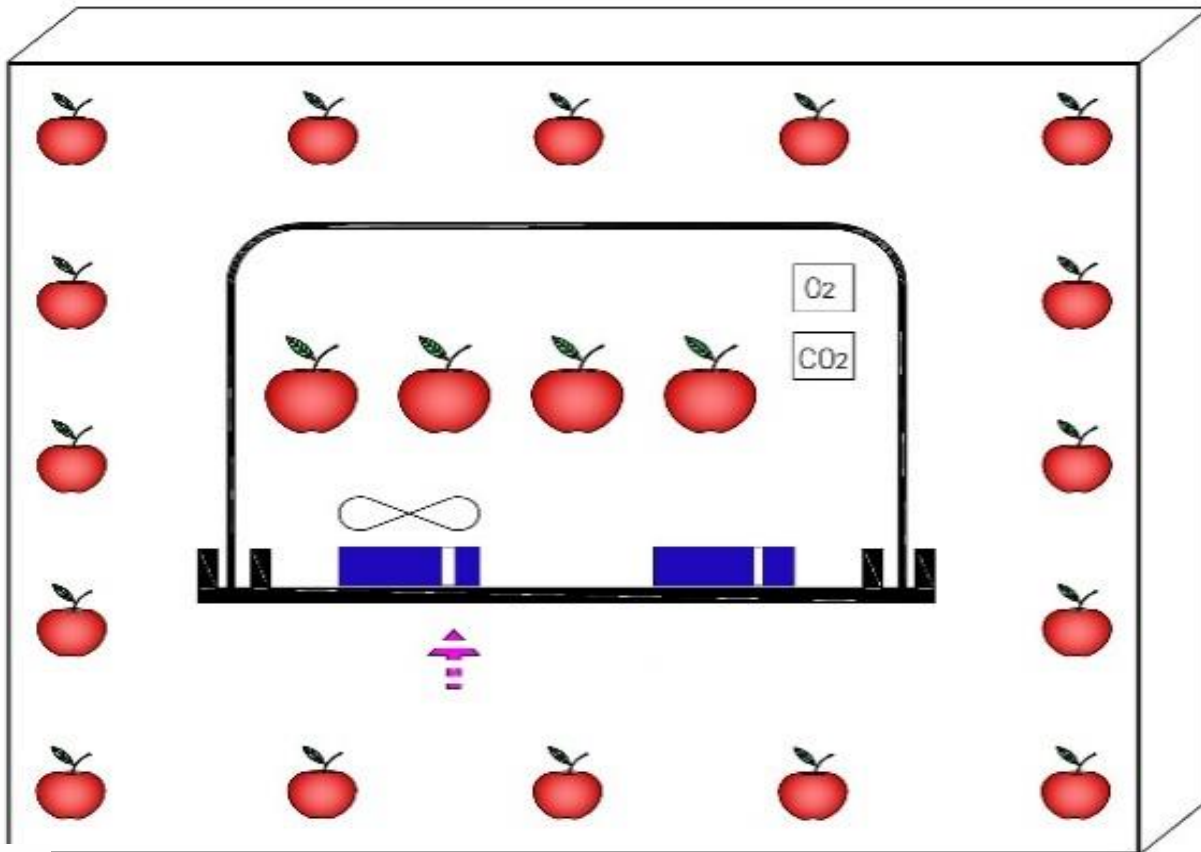


Control Mode

Valves & Fan
Auto controlled

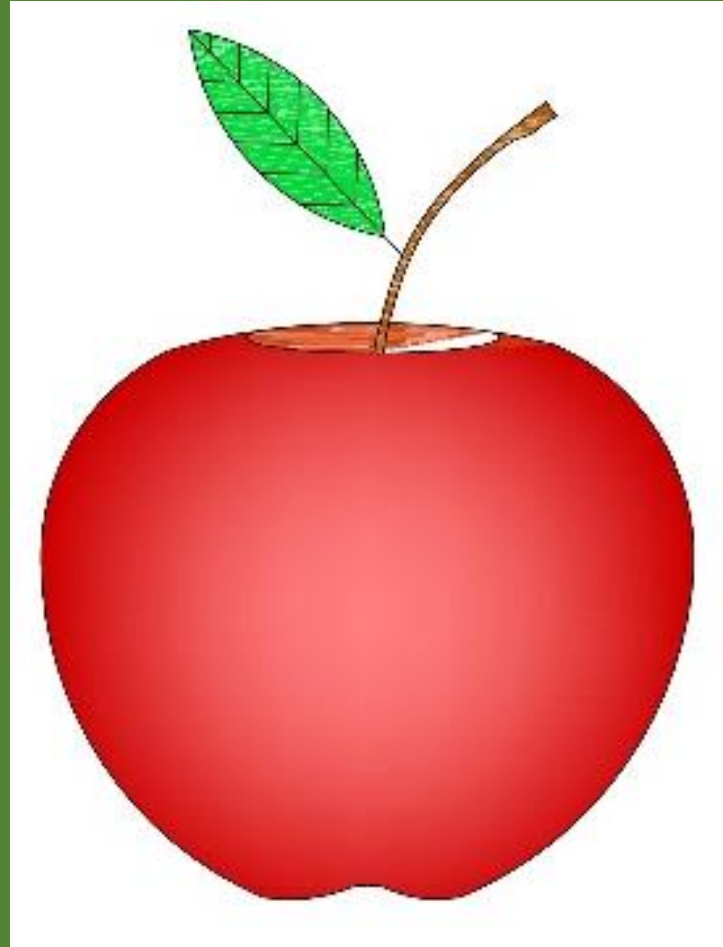
Typical Room:
1% Oxygen 0.8% CO₂

Pod:
0.6% Oxygen 1.2% CO₂



Respiration

Oxygen

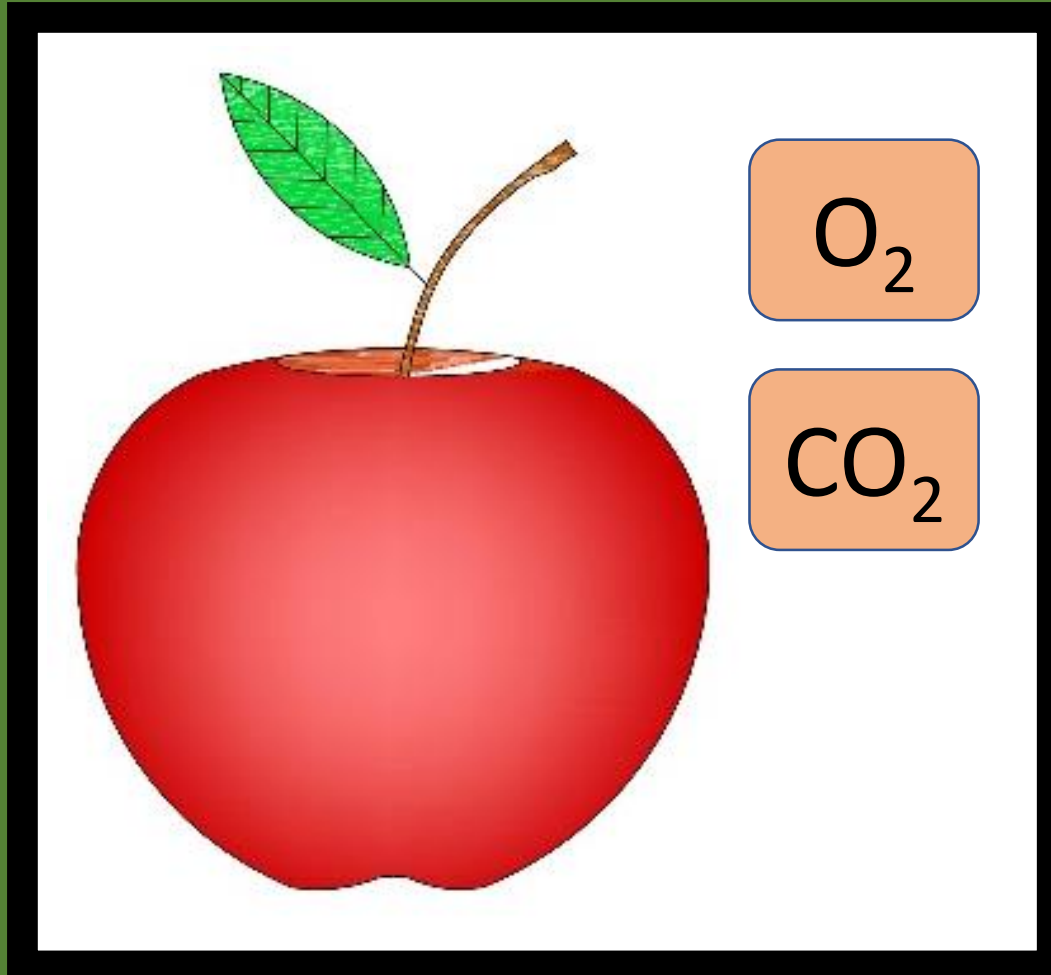


CO₂

Heat

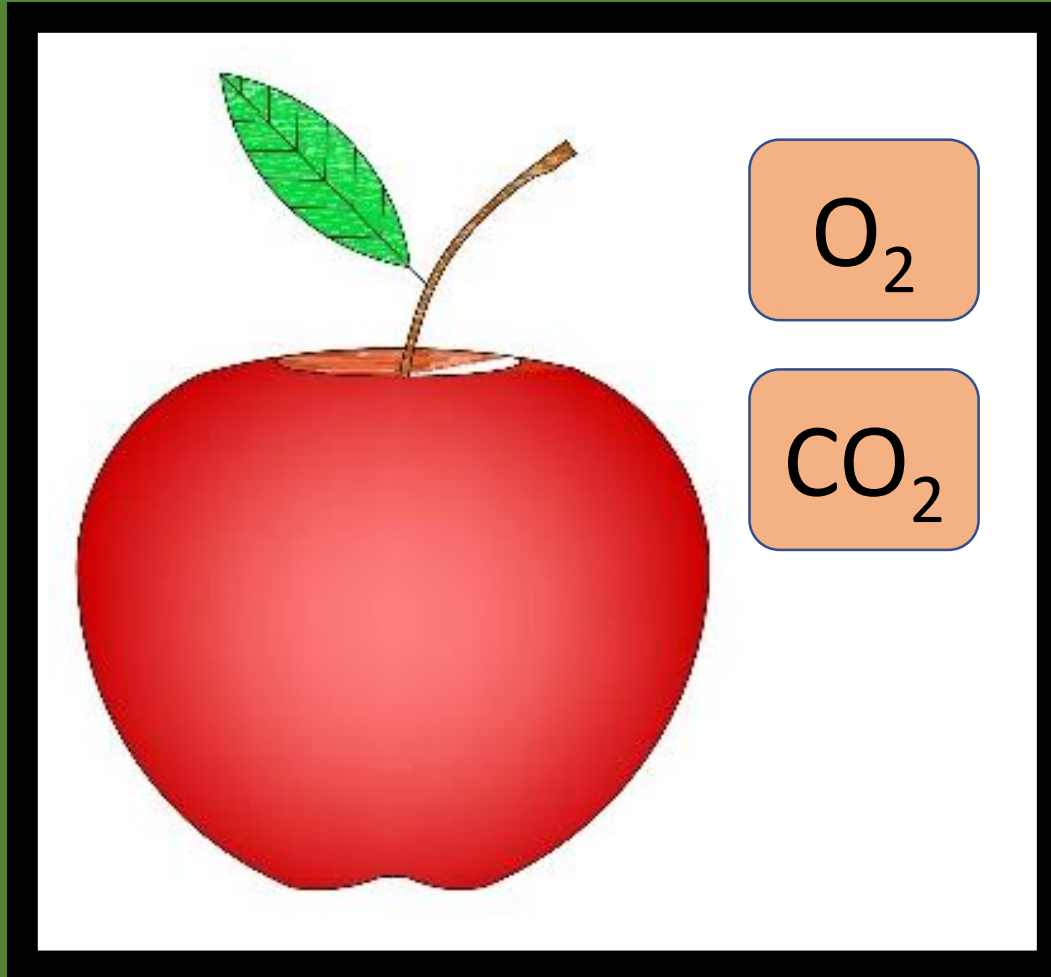
Water

Respiration



Respiration

ml/kg/hr

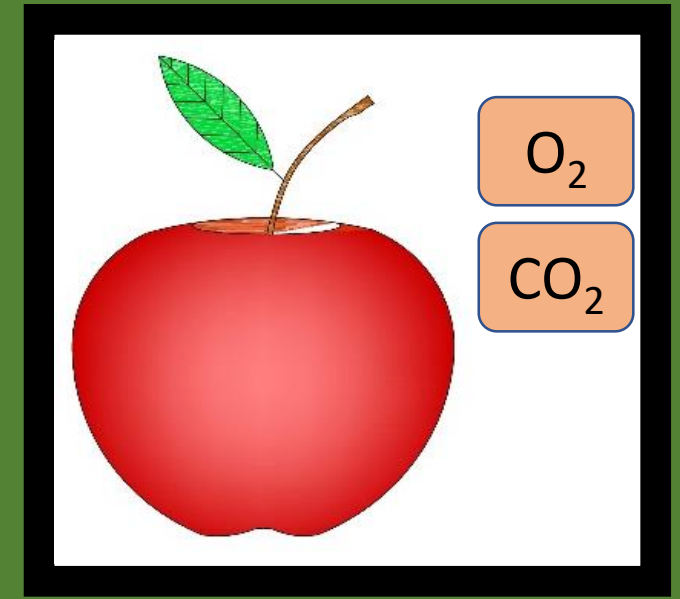


Respiration

Time delay

Room Comparison

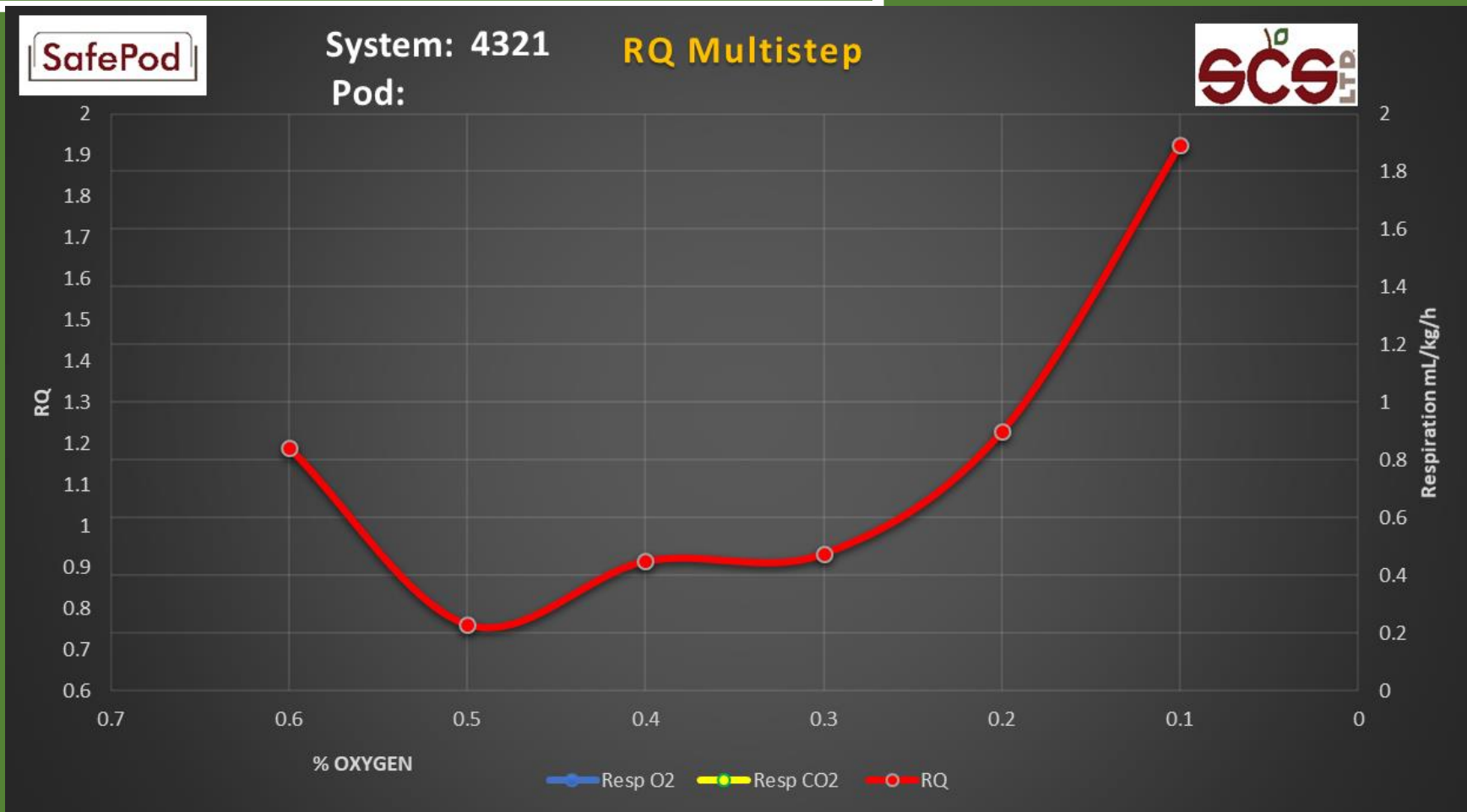
Disorder indication



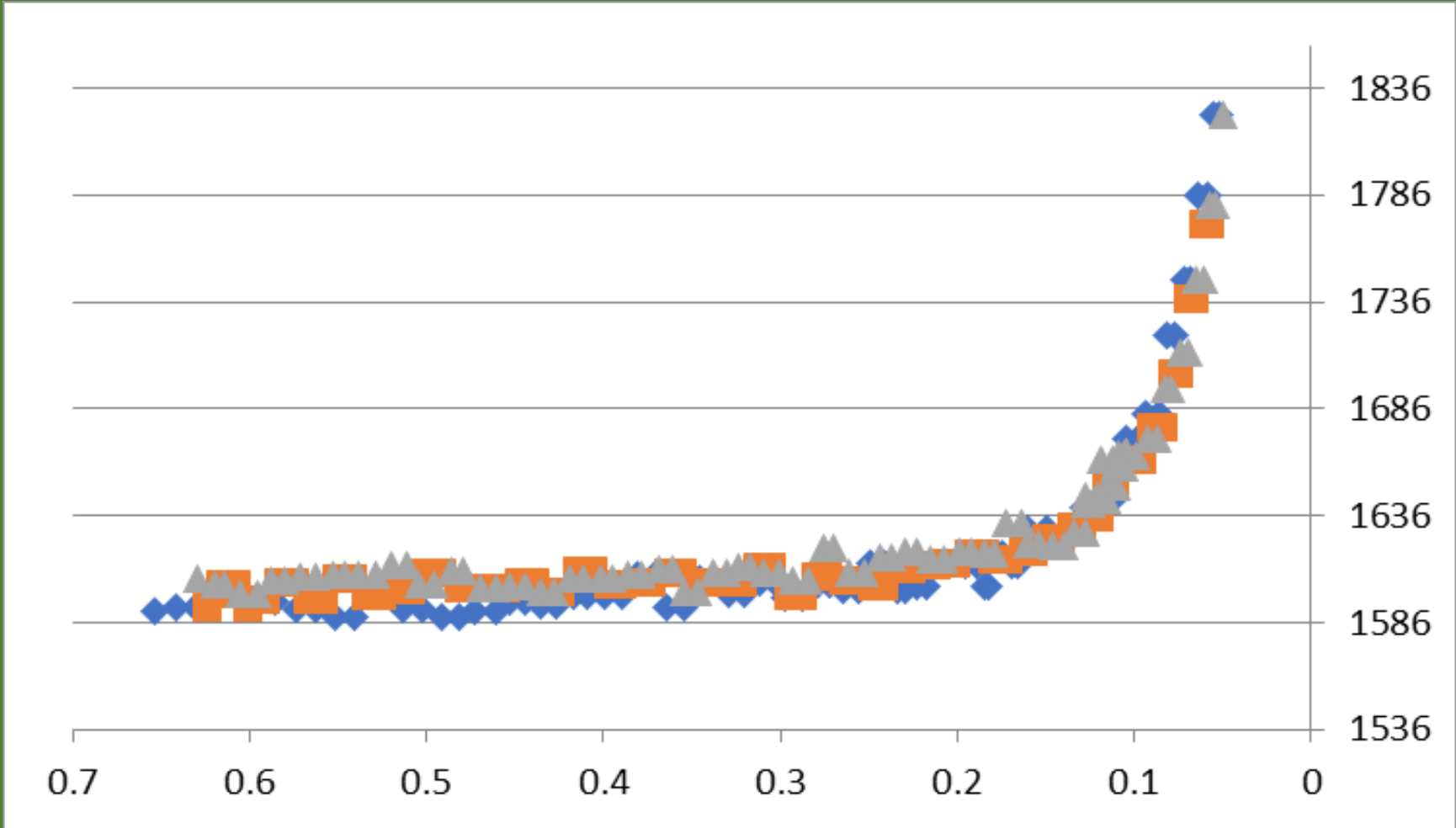
Respiratory Quotient

$$RQ = \frac{\text{CO}_2 \text{ produced}}{\text{O}_2 \text{ consumed}}$$

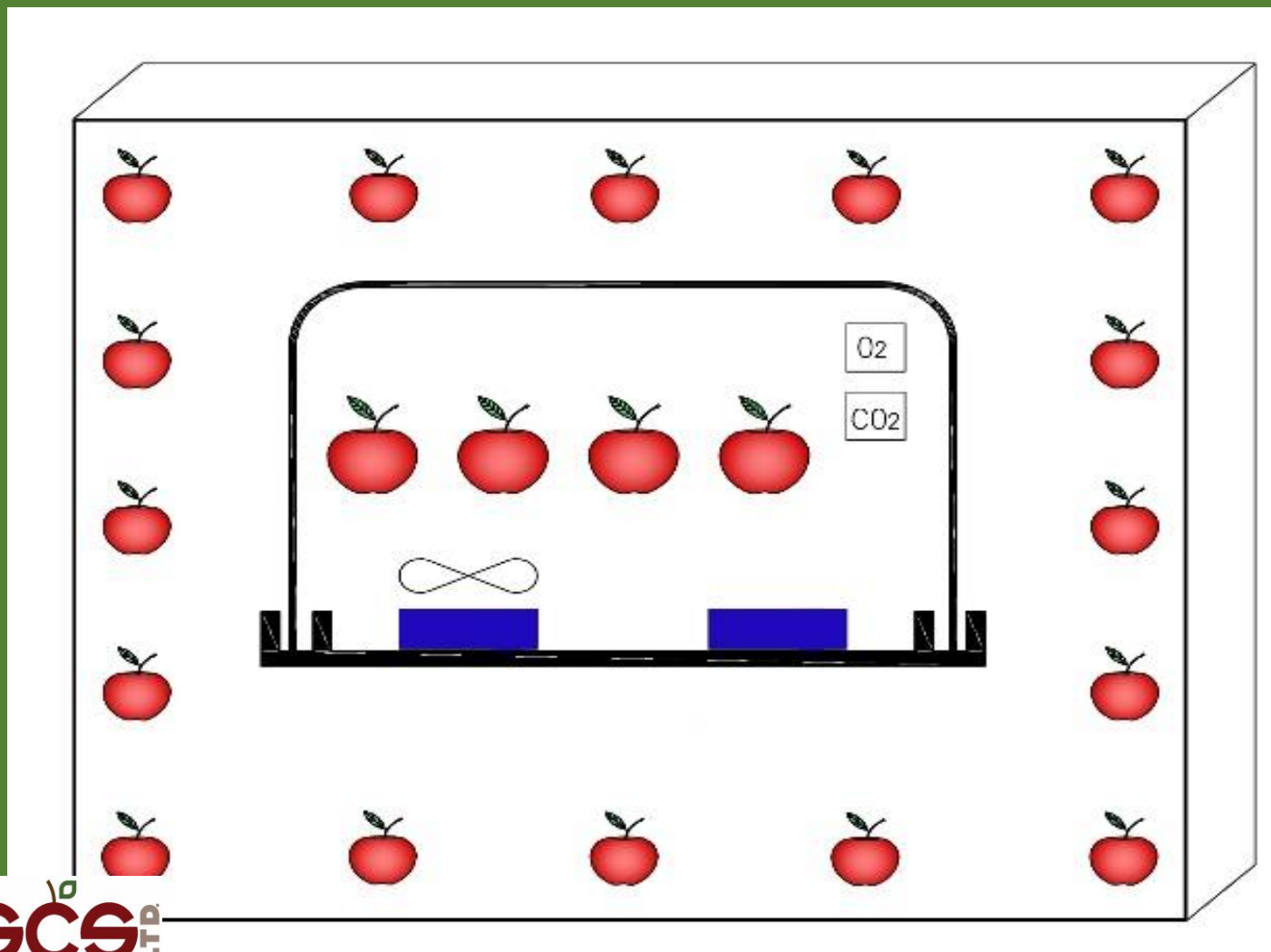
Respiratory Quotient



Respiratory Quotient



Single Step



Single Step

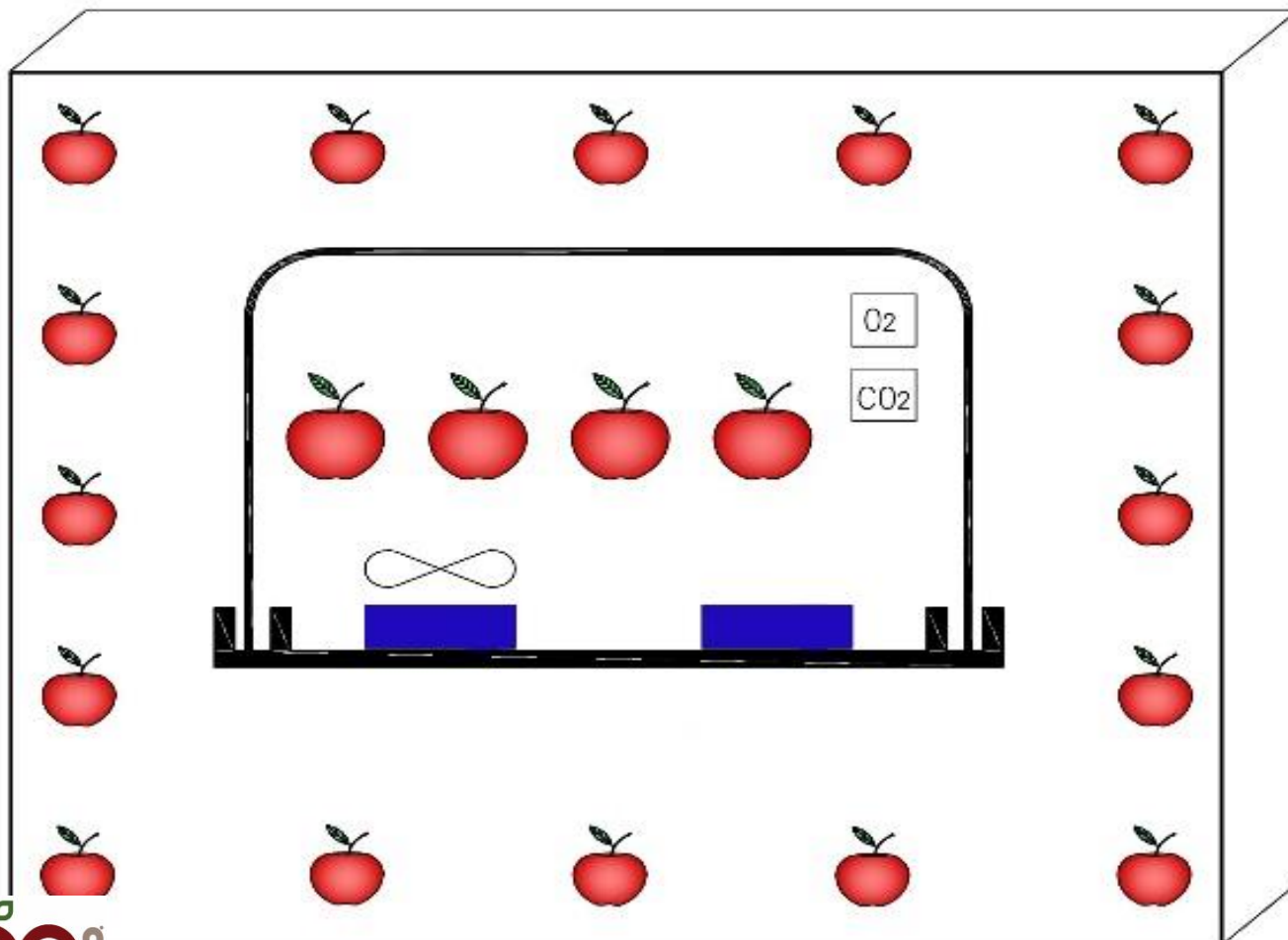
Valves Shut for duration of test.

Typical Room:
1% Oxygen 0.8% CO₂

Pod start:
1% Oxygen 0.8% CO₂

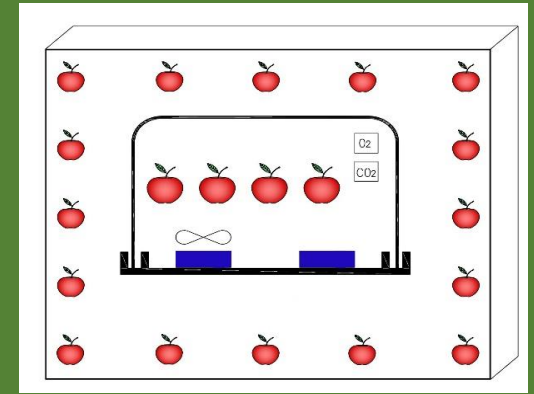
Pod + 5 hours:
0.9% Oxygen 0.9% CO₂

Finish :
1% Oxygen 0.8% CO₂

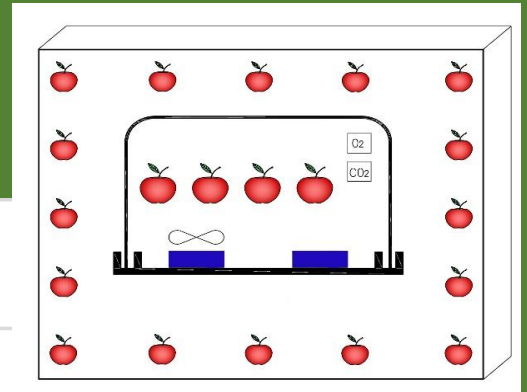


Single Step

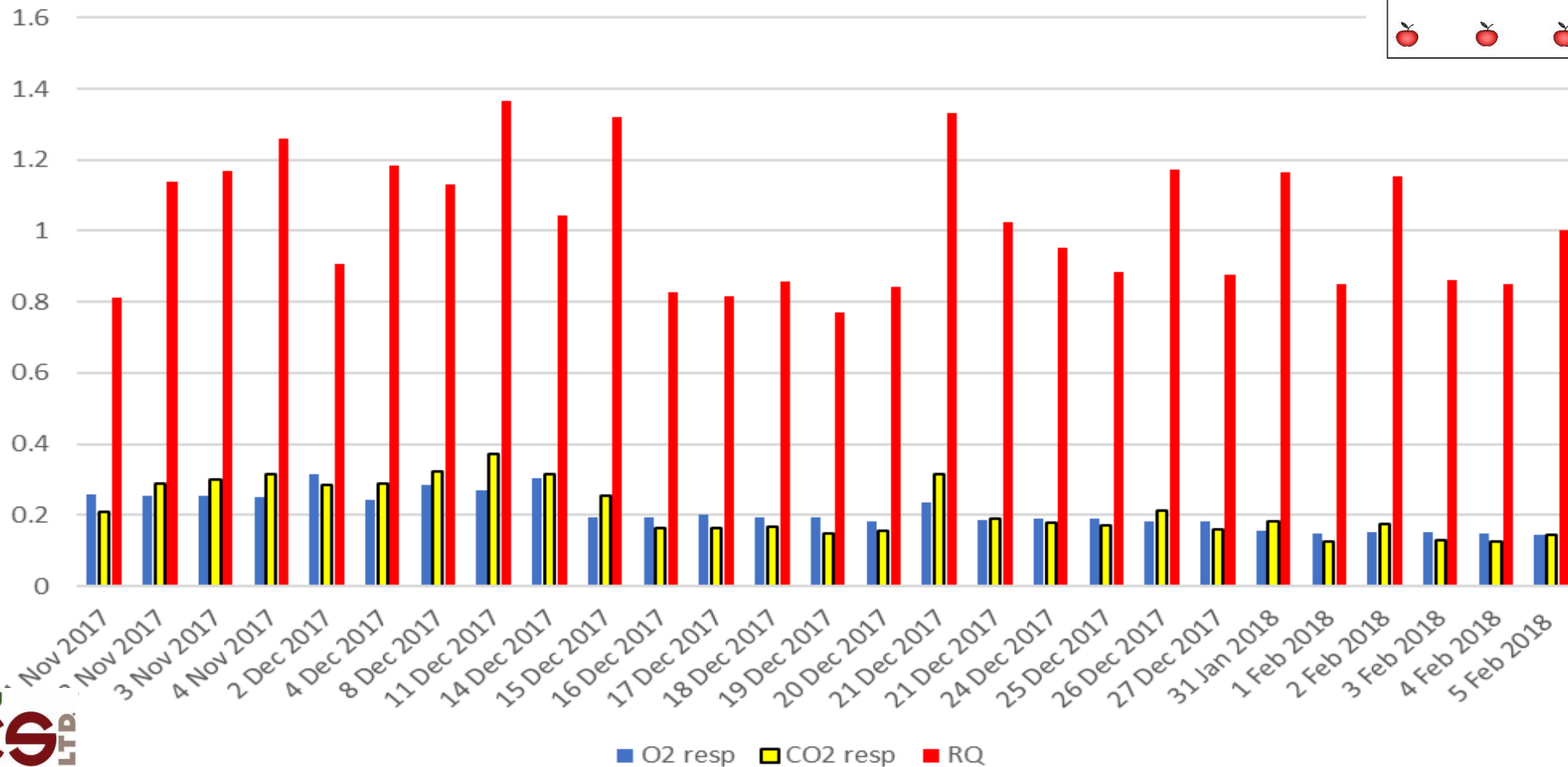
- Oxygen change recommended 0.1% but no less than 0.05%
- Measures mean O₂ and CO₂ value over 15 mins
- Programmed number of 15 min steps for the complete step
- eg: 20 x 15mins to give a 5 hour test + time delay
- “best fit line “ over complete test to give final value of respiration
- Uses container volume and fruit weight to complete calculation
- Repeat every 7 to 10 days



Single Step



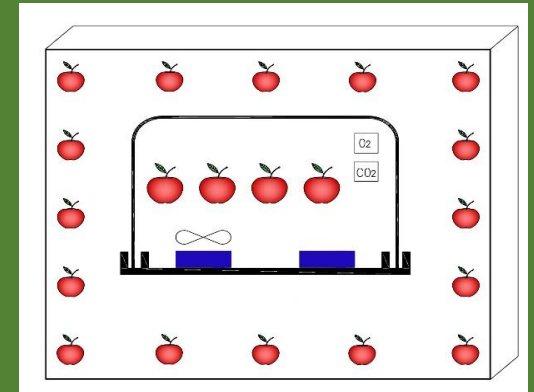
Single step



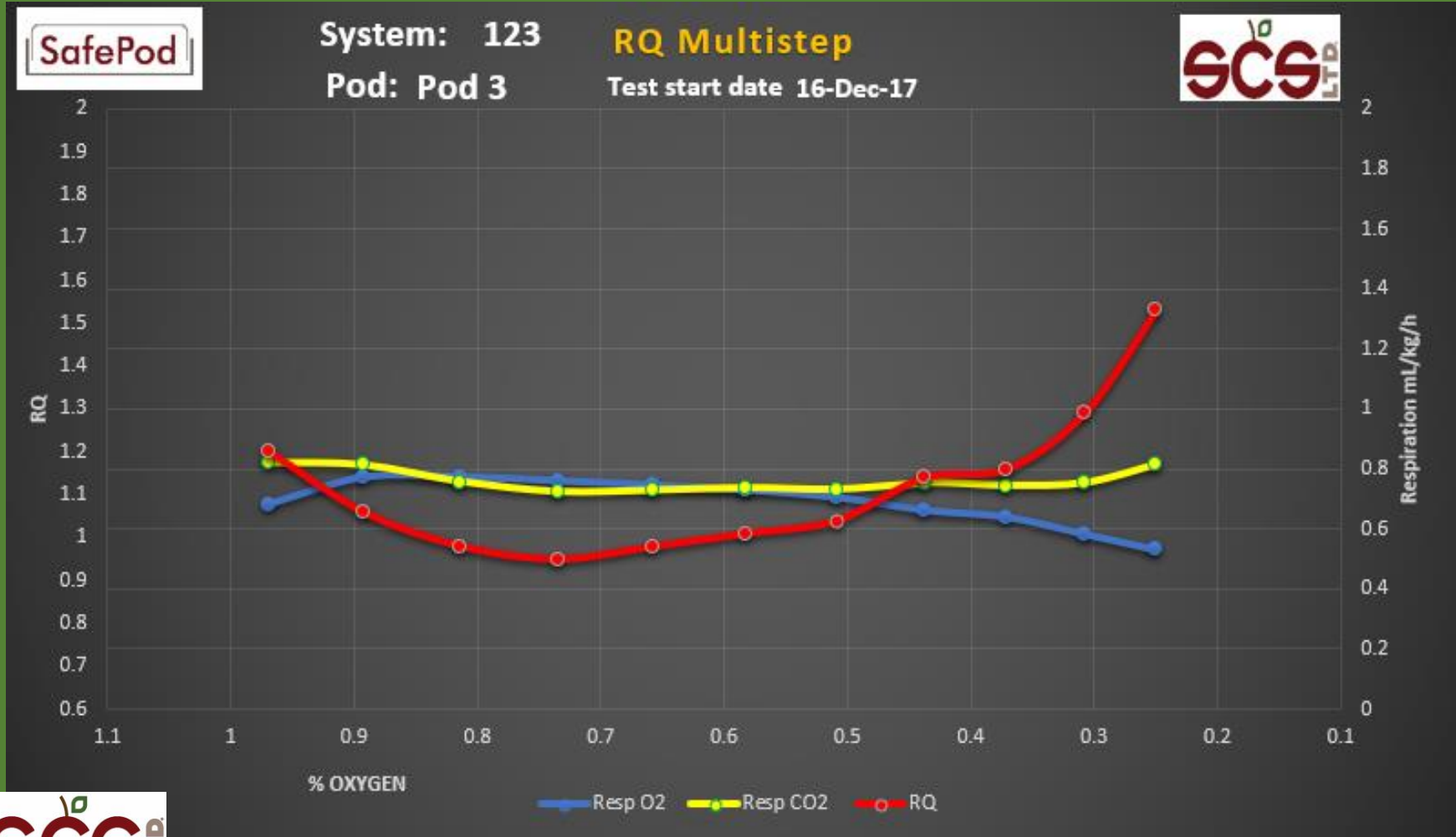
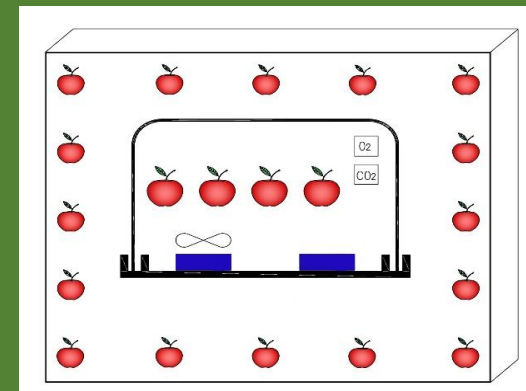
Multi Step

Valves Shut for duration of test.
Minimum Oxygen set 0.3%

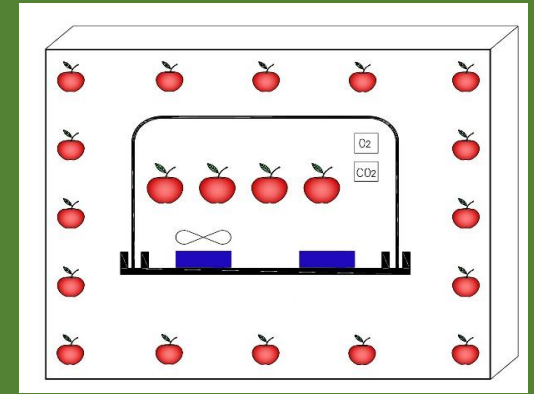
Typical Room:	1% Oxygen 0.8% CO2
Pod start:	1% Oxygen 0.8% CO2
Step 1 :	0.9%Oxygen 0.9%CO2
Step 2:	0.8% Oxygen 1% CO2
Step 3:	0.7% Oxygen 1.1% CO2
Step 4:	0.6% Oxygen 1.2% CO2
Step 5:	0.5% Oxygen 1.3% CO2
Step 6:	0.4% Oxygen 1.45% CO2
Step 7:	0.3% Oxygen 1.65% CO2
Finish :	1% Oxygen 0.8% CO2



Multi Step



Multi Step



At least 30 days between tests