

Quick Start Guide

TrueDry CV9



AQUA[®]
LAB
BY DECAGON

Introduction



Congratulations on your new AquaLab TrueDry instrument. This guide will help you properly setup and begin gathering data in just a few short steps.

What's Included?

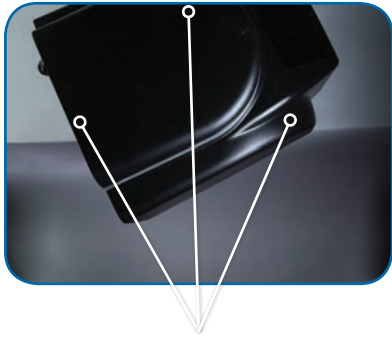


*Periodically purchase at store.aqualab.com

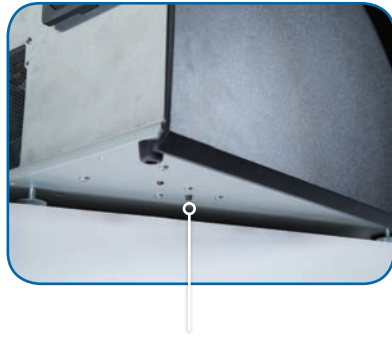
Unpacking the TrueDry

- 1** Open the box and set aside the desiccant tubes, remove the TrueDry and place it on a table or bench top.
- 2** Slide the TrueDry to the edge of the table while keeping three metal feet on the table. Locate the black shipping screw. Using the provided hex-key, unscrew the shipping screw until it stops, it will be extended about a quarter of an inch. Refer to the photos on the next page for more detail.
- 3** Place the TrueDry on a stable surface away from any source of vibration.
- 5** Insert the desiccant tubes into the slots on the front of the TrueDry. Orient the black port on the bottom of the desiccant tube towards the front of the TrueDry.
- 6** Insert the power cord into the TrueDry and flip the switch on the back panel of the instrument.
- 7** Wait for the boot process, and the TrueDry is now ready.

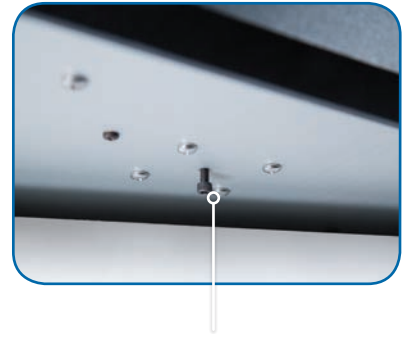
Removing the Shipping Screw:



Keep Three Feet on the Table



Locate Black Shipping Screw



Loosen Screw Until it Stops

Running a Test



The TrueDry CV9 uses a touchscreen LCD display

- 1 Select “Run Test” from the home screen.
- 2 Choose “New Configuration” and then select “From Scratch.”
- 3 In the Configure Test screen, use the sliding controls or on screen keyboard to enter values.
- 4 Press “Enter” on the keyboard to return to the configure test screen.



The screenshot shows a 'Configure Test' interface with a dark blue background. At the top left is a 'Back' button. The title 'Configure Test' is centered at the top. Below the title, there are several input fields and sliders. The 'Name' field is empty. The 'Temperature (C)' field contains '100.0'. The 'Min Weight (mg)' field contains '10.0'. The 'Max Weight (mg)' field contains '25000.0'. The 'Timeout (min)' field contains '1440.0'. The 'Trigger (% Wt. Change/min)' field contains '0.001'. To the right of each field is a horizontal slider with a blue circular knob. The knobs for 'Min Weight', 'Max Weight', and 'Timeout' are positioned towards the right end of their respective sliders. At the bottom of the screen, there are three buttons: 'Save Configuration', 'Export To USB', and 'Begin'.

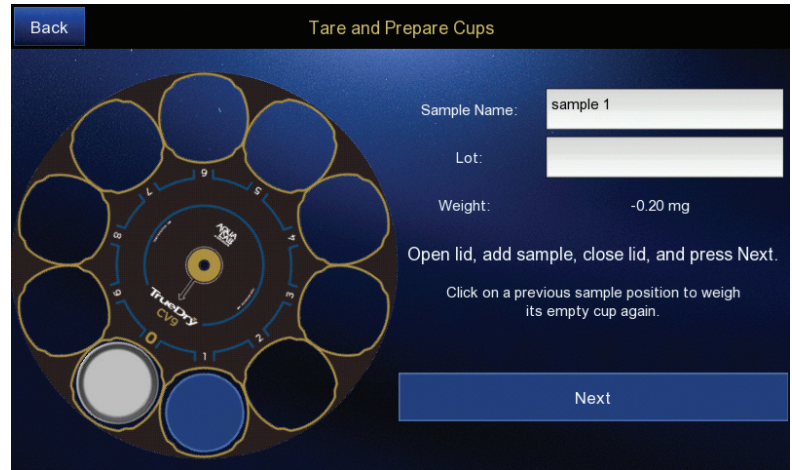
Parameter	Value
Name	
Temperature (C)	100.0
Min Weight (mg)	10.0
Max Weight (mg)	25000.0
Timeout (min)	1440.0
Trigger (% Wt. Change/min)	0.001

- 5 You may use sample weight minimum/maximum settings to ensure the sample weights are in the desired range.
- 6 If you want the test to run for a specific time, enter that into the "Timeout" field, and set the "Trigger" field to zero.
- 7 If you want the test to stop when the samples are dry, drag the "Timeout" slider to the right, and leave trigger value on the default setting of .001%/min.
- 8 If you want to run the same settings for future tests, select "Save Configuration" to save the settings as a template. Select "Begin" to begin loading samples.

- 9 Place empty sample cups in the quantity and places you desire. Include a cup in the zero position that remains empty. Close the lid and select “Next.” The TrueDry will detect sample cups and take precise weight measurements.¹
- 10 When prompted add sample to sample cups. You may enter a sample name and lot information before selecting “Next.” If you do not, default sample names will be used. After selecting “Next” the TrueDry takes a precise weight measurement¹ of the loaded sample cup.

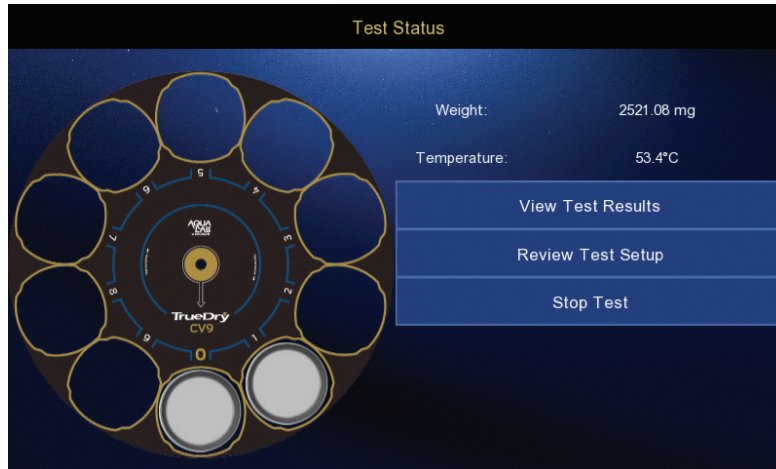


Selecting a blue sample cup allows you to remeasure that particular sample at any time during the setup process.



¹ Do not touch or move the TrueDry or table during these weight measurements. Movement contributes to inaccurate results. Also, make sure to prepare samples outside of the instrument to prevent dirtying the drying chamber.

Need Sample Cups? Go to store.aqualab.com



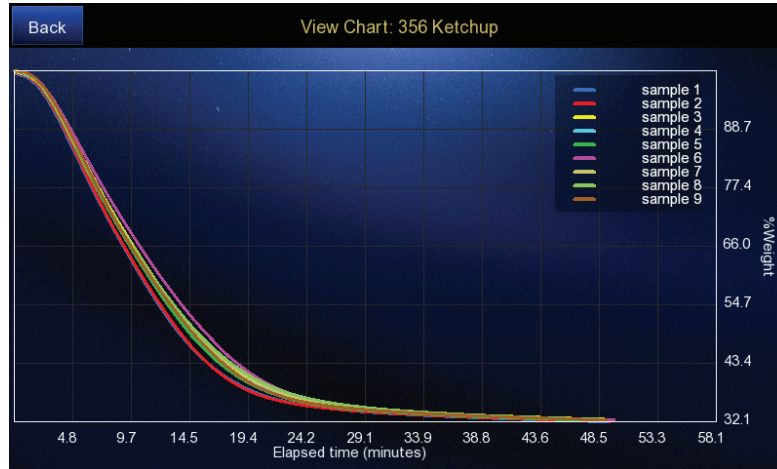
- 11 After you have loaded your last sample, airflow and heating will begin.
- 12 On the screen you can see what is happening in the chamber during the test. If you wish to view the progress of the test, select "View Results."
- 13 Select "View Chart" for a graphical representation of the data.
- 14 Select "View Table" to see numeric details of each sample. Select the magnifying glass icon to view details for a specific sample.

Please see the following pages for a more detailed view of your tables and charts.

Viewing Results

View Chart

Displays the dry down curves for all samples in real time.



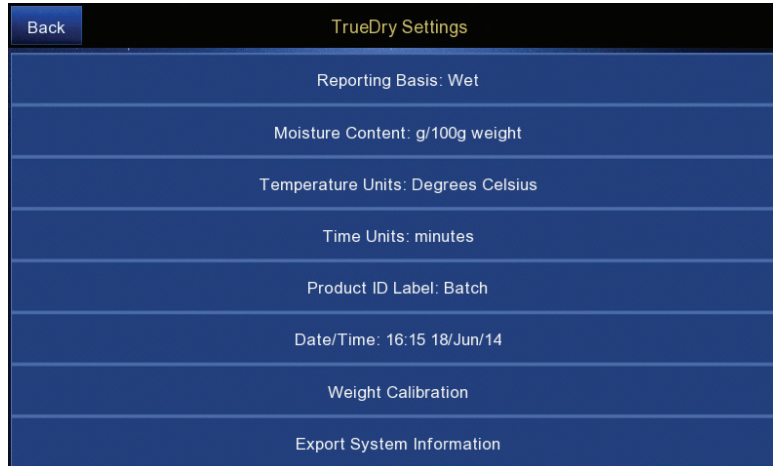
Back		View Table: 356 Ketchup				
	Name	Batch	Elapsed time	Init Wt (mg)	Final Wt (mg)	% Dry Solids
1	sample 1		49.2	3995	1281	32.1
2	sample 2		49.3	3976	1278	32.1
3	sample 3		49.4	4015	1304	32.5
4	sample 4		49.5	4054	1313	32.4
5	sample 5		49.6	4007	1291	32.2
6	sample 6		49.7	3950	1280	32.4
7	sample 7		48.8	3990	1294	32.5
8	sample 8		48.9	3971	1291	32.5
9	sample 9		49.0	3964	1284	32.4

View Table

Shows summary results for all samples.

Select the magnifying glass icon on the right to view data for a specific sample.

Settings Overview



The image shows a screenshot of a settings menu titled "TrueDry Settings". At the top left is a "Back" button. The menu items are listed as follows:

Setting
Reporting Basis: Wet
Moisture Content: g/100g weight
Temperature Units: Degrees Celsius
Time Units: minutes
Product ID Label: Batch
Date/Time: 16:15 18/Jun/14
Weight Calibration
Export System Information

Reporting Basis

This changes the moisture content calculation in relation to either the initial (wet) weight or the final (dry) weight. The basis parameter allows the reporting of moisture content in three different ways, percent moisture on a wet basis, percent moisture on a dry basis, and percent moisture on dry solids.

Moisture Content

Report moisture content in decimal (g/g weight) or percent (g/100g weight) format.

Temperature Units

Report in degrees Celsius (°C) or Fahrenheit (°F).

Time Units

Report elapsed time in hours, minutes or seconds.

Product ID Label

This setting allows you to enter a "Sample" name when loading samples and a second text field allows additional sample information. These fields allow you to set a custom identifier for individual samples. Readings always show up with a Sample label and then by default a blank Lot field. You may change the term lot to any terminology you like with this setting.

Date/Time

The time and date must be set manually, and do not automatically adjust for daylight savings.

Weight Calibration

Runs a calibration routine for the scale. You will be required to use an empty sample cup and the supplied 2.0000 gram standard.

Water Activity Education

Learn more about using water activity for your specific application.



Get everyone on your team certified for this instrument.
Explore several free courses from Microbial Growth to Moisture Sorption Isotherms.
aqualab.com/university

Complete moisture analysis with these AquaLab products:



TDL

Moisture Analyzer.
Water Activity.
Moisture Content.



VSA

Vapor Sorption Analyzer.
Dynamic & Static Moisture
Sorption Isotherm generation.



TrueDry

Loss on Drying Moisture
Content Analyzer.
Multiple Samples.
Primary Method.



Sample Cups

100ct. TrueDry Specific
Sample Cups.



AquaLink 4

Data Management Software.
Backup, graph, and share your data.



Complete Moisture Analysis Toolkit

Need supplies? Go to store.aqualab.com

Moisture Content Analyzer



USA AquaLab Sales 509-332-2756
USA AquaLab Customer Support 509-332-5601
Service outside USA, contact your local distributor

Copyright ©2015 Decagon Devices, Inc.
2365 NE Hopkins Court, Pullman, WA 99163
14630

PRINTED IN USA