

Sample Machine



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CREATIVE LOGO
YOUR SLOGAN

System Identification

Locate the data plate for this sample machine and record the information provided in the spaces below. To view current documentation for your machine, scan the QR code:

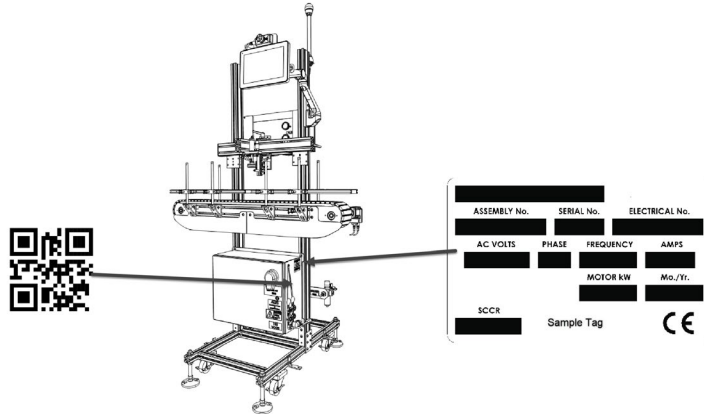


Figure 1: Data Plate and QR Code Locations on Right Side of Panel (click icon)



Supplier of the Equipment:

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CREATIVE LOGO
YOUR SLOGAN

1 Introduction

1.1 About This Manual

This Advanced Digital Document (ADD) may be accessed anytime by scanning the QR code located on your machine. The QR code link will always ensure that you are getting the latest version of the manual. Any revisions to the manual are automatically updated in the QR code link. You may also receive a message that an updated manual has been posted for your machine.

This Advanced Digital Document can be integrated into an HMI providing there is enough memory and a usable operating system. Furthermore, links to the training, videos, parts, and troubleshooting techniques may also be integrated into an HMI.

This manual contains information on the safety, transportation, operation, and maintenance of this machine.

The graphics used in this manual may show machine details that may be different than the actual machine. Components of the machine may have been removed for illustrative purposes or the continuing improvement of the machine's design may cause changes that are not included in this publication.

The owner of this machine is responsible for verifying the operator of this machine is properly trained and understands the contents of this manual.

1.2 Documentation

Sample Company, LLC; (SC), reserves the right to make changes or improvements to the QC at any time. These changes may not be immediately reflected in the manual accompanying your system. If you notice any inaccuracies or oversights in this manual, please contact the ALPS Service Department.

This manual is protected by U.S. federal copyright laws © 2012 Air Logic Power Systems LLC. However, limited permission is hereby granted to photocopy portions of this manual for training of company personnel only. No part of this manual may be duplicated or transcribed in any form, for any other purpose, except as stated above, without expressed written permission from Air Logic Power Systems LLC.

1.3 Software

Installation of any new or modification of existing software in the QC Linear Leak Tester not approved by Air Logic Power Systems LLC may adversely affect the operation or performance of the machine and possibly void the warranty and or service agreements. Please consult Air Logic Power Systems Service Department prior to installing or modifying existing software on this machine.

1.4 System Modifications

Mechanical or electrical modifications not approved by Air Logic Power Systems LLC to the QC leak detection system may also void the warranty and/or service agreements. Please contact the Air Logic Power Systems Sales or Service Department for approval or assistance with any machine modifications.

1.5 Acknowledgments

Trademark and Patent Acknowledgments

All products or product names mentioned in the manual are trademarks of their respective companies. The product name: QC Leak Tester is protected under the United States patent laws.

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2 ADD Navigation

All links within ADD manual pertaining to maintenance, parts, training, and troubleshooting are shareable by text or email and depending on the operating system of the HMI may be embedded into the HMI.

2.1 Video Links



Video links are available in this manual. Click on the camera icon to view a video demonstration relative to the section of the manual that is being viewed.

2.2 Maintenance Links



Maintenance links are provided throughout this manual to indicate a possible maintenance item. This is for periodic maintenance or may indicate a time that is convenient to perform a maintenance task.

2.3 Parts Link



This manual contains an interactive parts catalog that will link to every available part in this machine. The parts catalog is searchable and the model can be disassembled to find a specific part or learn how to get to a part. This may also lead to a recommended spare parts list for ordering parts. All parts can be ordered directly from this link.

2.4 Troubleshooting Tips



This icon represents suggestive troubleshooting properties during the operation of this machine. What to do when a certain situation arises or a potential situation. These actions are based on experienced usage and historical information.

2.5 Animated Procedure



An animated procedure or instruction will be identified by the animation icon. This is an optional feature that can be embedded into the document.

2.6 Drawings or Schematics



The above icon will bring up a drawing or a schematic. This could be electrical, hydraulic, pneumatic, or mechanical depending which section of the manual is being viewed.

2.7 Virtual Reality, Augmented Reality, and Mixed Reality



The above icon will bring up a virtual world of many types of assets. This can include training, operations, site layout, and much more. Typically this should be viewed using a set of VR goggles but can also be viewed on a PC, phone, or tablet.

2.8 360 Degree Imagery



A 360 degree image is a full parabolic view of an area. Inside a machine, a building, or outdoors. This can be helpful in visualizing how a machine is set up, looking inside, or inside of a shop. The image can be accessed and viewed on a phone, PC, or tablet. Simply rotating the viewer will act as though the user is standing in the environment and can look in any direction for full visibility of the area.

2.9 Customer Service Link



Although this manual contains all the necessary contact information for each machine, this icon is a quick link to send an email to support, customer service or sales from a laptop, PC, phone or tablet.

3 Safety

3.1 General Safety Guidelines

This machine is designed to comply with international design standards and the European Machinery Directives. Therefore, using the machine does not pose a risk to the operator when the instructions in this manual are followed. However, certain precautions must be followed during its use. To understand all the necessary precautions, the machine operator must read the entire manual before operating or performing maintenance on the machine.

Operation and maintenance should only be performed by authorized and trained personnel. Below are some basic safety guidelines:


- Follow local governing codes to ensure a minimum standard of safety.
- Wear protective gloves, eye protection, and hearing protection.
- Operate the machine in a well-ventilated work area.
- Follow the prescribed maintenance schedule.
- Start up and shut down the machine according to the instructions in this manual.
- Do not operate a machine that is damaged or in disrepair.
- Do not store objects on top of machine.

3.2 Safety: Warning Messages Cautions

Caution messages can appear before procedures. Messages of this type indicate possible damage to the machine or loss of data if a step or procedure is not properly observed.

3.3 Warnings

Warning messages imply that a potential health hazard exists in the performance of any random procedure. Please review the following cautions and warnings before operating or performing maintenance on the machine.

WARNING!
WARNING! DO NOT WEAR LOOSE CLOTHING, LOW-HANGNING JEWELRY, OR ANYTHING THAT CAN BECOME ENTANGLED IN THE MOVING CONVEYOR. WOMEN ARE CAUTIONED TO PIN UP LONG HAIR. THE POTENTIAL FOR SLIGHT TO MODERATE PERSONAL INJURY EXISTS.
 DANGER!
NEVER ATTEMP TO SERVICE THIS MACHINE WITHOUT FIRST DISCONNECTING ELECTRICAL AND PNEUMATIC POWER AND PERFORMING LOCK-OUT / TAG-OUT PROCEDURES. THE POTENTIAL OF SERIOUS PERSONAL OR FATAL BODILY INJURY EXISTS!

Cautions and Warnings

Please review the following cautions and warnings before operating or performing maintenance on the machine.

- CAUTION** Read the instructions before using the machine. Only qualified personnel should operate the QC.
- WARNING** High pressure hoses, fittings and couplings are important for the safety of the machine. Use only hoses, fittings and couplings recommended by ALPS.
- WARNING** To ensure machine safety, use only original spare parts from ALPS or approved by ALPS.
- WARNING** Do not use the machine if a supply cord or important parts of the machine are damaged, e.g. safety devices.

3.4 Safety: Warning Labels and Descriptions

Safety is always critical. The ALPS QC machine is equipped with a full complement of warning decals and labels. A standard series of warning and caution labels are in place to inform the operator of certain hazards relative to the function of this machine. Please observe these warnings.



Figure 2: Safety Label

3.5 Warning Label Location

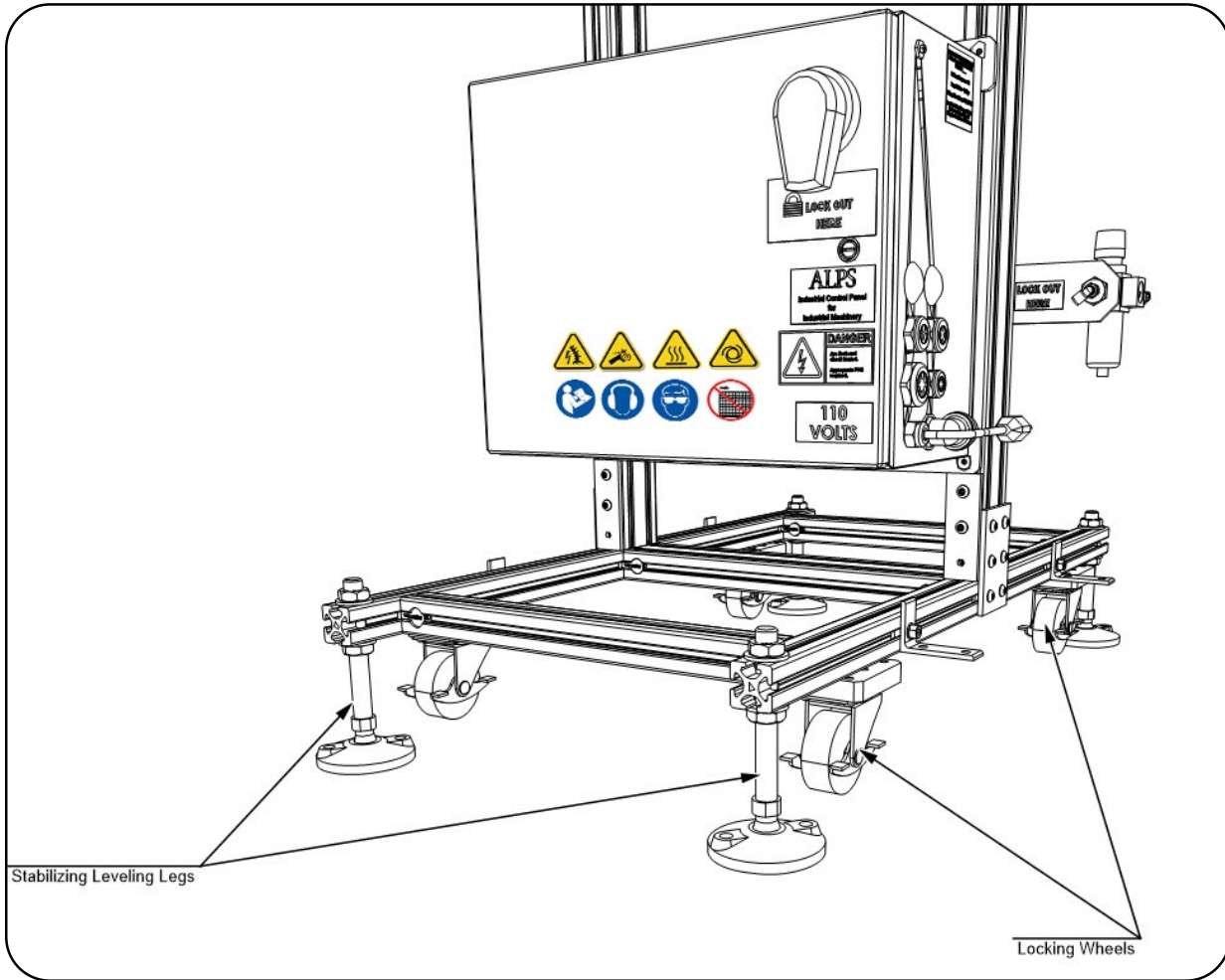











Figure 3: Warning Label Location

3.6 Symbol Definitions

The symbols used on the machine were developed by the International Organization for Standardization (ISO) and are defined below. These symbols may include yellow warnings triangles, blue mandatory action circles, or red prohibited action circles.

Symbol	Definition
	Electrical Hazard
	Pinch, Belt, Gears, and Wheel hazard
	Possible Hot Surfaces

Symbol	Definition
	Lock Out Tag Out
	Machinery Starts Automatically
	Wear hearing protection.
	Wear eye protection.
	Read operator and maintenance manual.
	Do not operate without Safeguard Grate/guard in place.

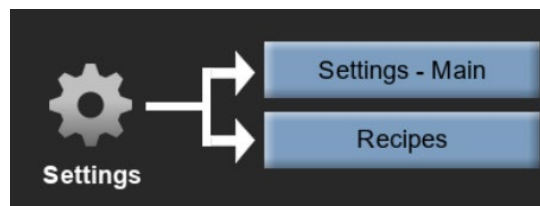
4 Settings

4.1 The Settings Menu

The leak tests performed by the BenchPlus depend on proper test settings. The Settings Menu is where leak test perimeters, reject limits, recipes, guided set up, and photo eyes may be accessed.

4.2 Supervisor Password

Changing any setting or perimeter requires a supervisors log in. The default password for the supervisor is (111).



4.3 Settings Main

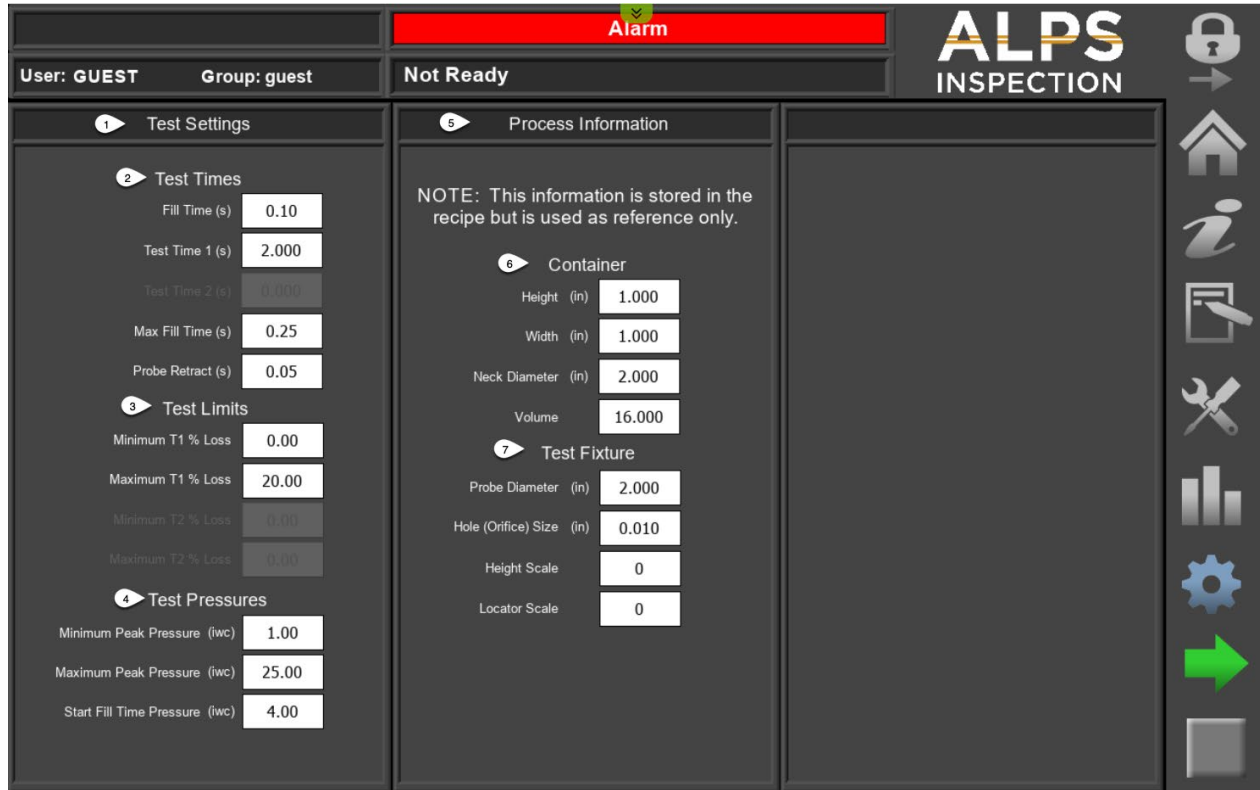


Figure 4: Settings_Testing Settings

Labels		
1	Test Settings	
2	Test Time	
a	Fill Time(s)	Amount of time the Fill Valve will remain ON after the Start Fill Time Pressure is achieved
b	Test Time 1 (s)	Amount of time the TEST TIME #1 is active after the FILL TIME is achieved
c	Max Fill Time(s)	Maximum time allowed for the START FILL TIME PRESSURE to be achieved
d	Probe Retract(s)	A fixed time for the PROBE RETRACT
3	Test Limits	
a	Minimum T1% Loss	Actual T1% must exceed this limit
b	Maximum T1% Loss	Actual T1% must not exceed this limit
4	Test Pressures	
g	Minimum Peak Pressure	Actual Peak Pressure must exceed this limit
h	Maximum Peak Pressure	Actual Peak Pressure must not exceed this limit
i	Start Fill Time Pressure	The point of when a good seal is reached and the FILL TIME begins
5	Process Information	

Labels		
6	Container	
a	Height	height of the container
b	Width	width of container
c	Neck Diameter	diameter of Container Neck
d	Volume	Volume of Container (for reference only)
7	Test Fixture	
a	Probe Diameter	Diameter of Probe
b	Hole (Orifice) Size	Desired orifice size to be found
c	Height Scale	a scale for the height of the Probe.
d	Locator Scale	a scale for the Locator Plate (Adjustable Tooling on the Base Plate).

4.4 QR Code

