

Quanti-Tray Sealer PLUS

User Manual

English



IDEXX

Note to purchasers of IDEXX products

IDEXX terms and conditions of sale, including our limited warranty, are available at idexx.com/en/about-idexx/terms-of-sale. The specific terms and warranty that apply are those for the region to which we or our authorized distributor shipped the product, as in effect when you ordered the product. We may update those terms from time to time.

Your use of the product indicates your acceptance of the applicable terms. If you do not agree to those terms, do not use the product, and contact your IDEXX representative or your authorized IDEXX distributor to arrange for return.

If your authorized IDEXX distributor provided you terms and conditions, including a warranty, for this product, then those terms and conditions control and supersede the IDEXX terms and conditions for this product.

Proprietary rights notice

Information in this document is subject to change without notice. Companies, names, and data used in examples are fictitious unless otherwise noted. No part of this document may be reproduced or transmitted in any form or by any means, electronic, mechanical, or otherwise, for any purpose, without the express written permission of IDEXX Laboratories. IDEXX Laboratories may have patents or pending patent applications, trademarks, copyrights, or other intellectual or industrial property rights covering this document or subject matter in this document. The furnishing of this document does not give a license to these property rights except as expressly provided in any written license agreement from IDEXX Laboratories.

© 2024 IDEXX Laboratories, Inc. All rights reserved. • 06-0002210-04

*Quanti-Tray, Colilert, Colisure, Enterolert, Legiolert, and Pseudalert are trademarks or registered trademarks of IDEXX Laboratories, Inc. in the United States and/or other countries. All other product and company names and logos are trademarks of their respective holders.

Introduction

WARNING!



RISK OF ELECTRIC SHOCK

Do not remove the outer shell of the sealer.

Do not spill water into the sealer.

When pouring water samples into the Quanti-Tray*, follow instructions in the Quanti-Tray insert.



RISK OF SKIN BURNS

Only those who have carefully read and understood the cleaning instructions should attempt to clean the inside of the sealer. For cleaning instructions, refer to the "Cleaning and Preventive Maintenance" section of this manual.



RISK OF MECHANICAL HAZARD

Only those who have carefully read and understood the cleaning instructions should attempt to clean the inside of the sealer. For cleaning instructions, refer to the "Cleaning and Preventive Maintenance" section of this manual.

If the Quanti-Tray Sealer PLUS is used in a manner not specified in the manual, protection provided by the Quanti-Tray Sealer PLUS instrument may be impaired.

Overview

The Quanti-Tray* Sealer PLUS is a motor-driven, heated-roller instrument designed to seal water samples inside Quanti-Trays. When used with Quanti-Trays and IDEXX reagents (such as Colilert*, Colilert*-18, Colisure*, Enterolert*, Enterolert*-E, Enterolert*-DW, Pseudalert*, or HPC for Quanti-Tray*), or Quanti-Tray/Legiolert* with Legiolert, the sealer automates the sample handling of bacterial enumeration.

Contents

Each Quanti-Tray Sealer PLUS comes with the base sealer unit, regional power cord, input shelf, one Quanti-Tray* Rubber Insert (blue), one Quanti-Tray/2000 Rubber Insert (black), MPN tables, and this user manual. Use only the blue or black rubber inserts with the Quanti-Tray Sealer PLUS.

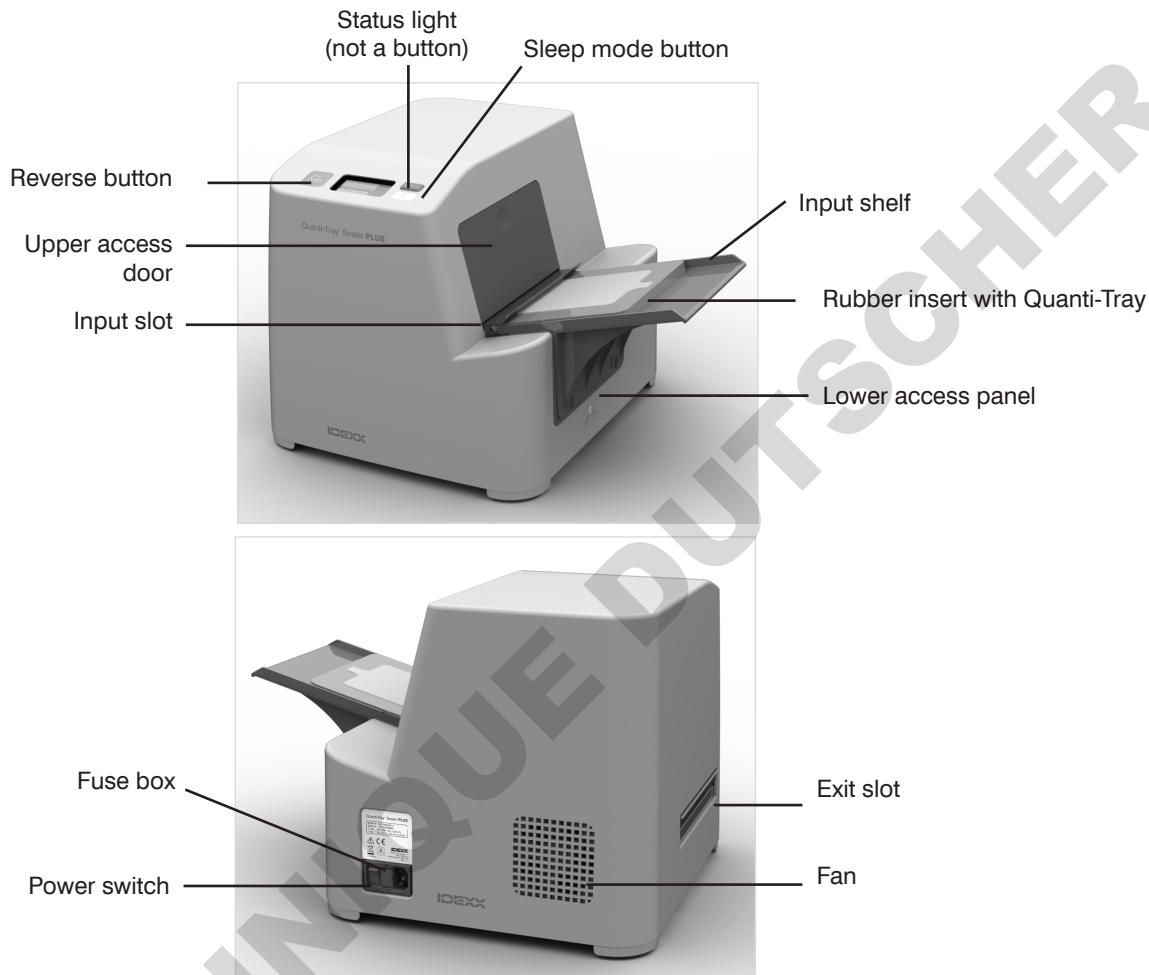
Note: Additional Quanti-Tray Rubber Inserts, including the Quanti-Tray/Legiolert rubber insert, are available separately.

Technical specifications of the instrument

Weight	24 lb	11 kg
Height	13 in	33 cm
Depth	14 in	35.5 cm
Width	16 in.	40.6 cm
Operating Temperature	50°F to 90°F	10°C to 32°C
Storage Temperature	-4°F to 176°F	-20°C to 80°C
Maximum Altitude	6,562 ft	2,000 m
Relative Humidity	10% to 80%	10% to 80%
Electrical Requirements	100–240 V 50/60 Hz 10 A Over-voltage Protection: Category 2	
Environmental Requirements	Pollution Degree II Intended for Indoor Use Only	

Setting up the sealer

- Unpack the contents and save packaging for future shipping.
- Position the sealer on a level surface with the display facing you and with adequate space for trays to be inserted and ejected. Ensure the fan is not blocked to allow air flow around the unit.
- Ensure that the power switch is turned off.
- Plug the power cord into the sealer and then into a grounded outlet of proper voltage (see product label).
- To connect the optional input shelf, center the holes over the corresponding tabs and press down.



Understanding the sealer display



Counter: Number of trays that have been run through the sealer.

Amber bars: Sealer is warming up.

Green bar: Sealer has warmed to sealing temperature.

Moon icon ☾: Sleep mode is enabled. See the “Using Sleep Mode” section of this manual.

Alert icon with error code ⚠: See the “Troubleshooting” section of this manual.

Sealing Quanti-Trays

WARNING: Personal injury, sealer damage, property damage, and/or inaccurate test results may occur if sealer is not used according to the following instructions.

1. Press the power switch to turn on the sealer. The red status light will blink. The amber status light illuminates to indicate the sealer is warming up.
2. Allow the sealer to warm up until the amber status light changes to green. The sealer will not operate until the status light turns green, indicating that the unit has reached sealing temperature.
3. Place a Quanti-Tray, Quanti-Tray/2000 tray, or Quanti-Tray/Legiolert tray filled with sample and IDEXX reagent, well-side down, onto the corresponding rubber insert, making sure that each well is seated firmly into its corresponding hole.

CAUTION: Do not apply labels of any kind to trays before sealing. Labels could damage the sealer. Use a felt-tip marker, or apply a label after the tray has been sealed.

4. Guide the loaded rubber insert into the input slot of the sealer, with the large cutout facing away from the sealer.
5. Slide the loaded rubber insert into the sealer until the motor grabs the insert and begins to draw it into the sealer. You can insert multiple rubber inserts consecutively without pausing.
6. After about 10 seconds, the sealed tray is partially ejected from the rear of the sealer.


Note: If you need to reverse the motor (for example, if a misaligned tray was accidentally fed into the sealer), press and hold the **Reverse** button .

CAUTION: Do not reverse the motor if the rubber insert has been drawn fully into the input slot.


7. Remove the rubber insert and tray from the rear of the sealer.
8. Turn off the sealer or use sleep mode when not in use.

Using sleep mode

When sleep mode is enabled, the sealer enters a low-power mode after 1 hour of inactivity. When the sealer is reactivated, it warms to sealing temperature faster than from a cold start.

To enable or disable sleep mode: Press the **Moon** button .

When sleep mode is enabled:








- A moon icon  is visible on the display.
- After 1 hour of inactivity, the green status light changes to a pulsing amber light, and the LCD display screen dims, only showing the amber bars.
- Sleep mode will remain enabled even though the sealer has been turned off and back on. The sealer will “sleep” again after 1 hour of inactivity.

To reactivate the sealer after the LCD display has dimmed: Press any button, or insert a Quanti-Tray. The sealer will process the tray once it has warmed to sealing temperature, indicated by a green status light.

To disable sleep mode: Press the Moon button again. The moon icon disappears from the display. Sleep mode can be disabled at any time the sealer is active (i.e., the LCD display screen is on).

Troubleshooting

IMPORTANT: If any of the following solutions fails to resolve a problem, contact IDEXX Technical Service at +1 800 321 0207.

Symptom	Cause and/or Recommended Action
 1 Internal Temperature Error	<p>The internal temperature of the sealer is over the allowed temperature. The heater turns off automatically so it can cool to a safe temperature.</p> <p>Overheating can be caused by periods of extremely heavy use or by using the sealer in a high-temperature environment. Wait until the green light appears before continuing.</p> <p>Overheating can also be caused by debris on the sensors. Check the sensors for debris and clean if needed. See “Cleaning and preventative maintenance” for instructions.</p>
 2 Temperature Read Error	<p>The roller temperature cannot be accurately read. Power the sealer off and then on.</p> <p>A temperature read error can be caused by debris on the sensors. Check the sensors for debris and clean if needed. See “Cleaning and preventative maintenance” for instructions.</p>
 3 Access Door Error	<p>The upper access door was opened while the unit was turned on. If the error appears while the door is closed, check that the upper access door and the lower access panel are fully seated.</p>
 4 Voltage Error	<p>The input voltage to the sealer is fluctuating outside the normal range. The problem could be caused by faulty input power. Try another power source. If the problem persists, call IDEXX Technical Service at the number above. (This error may flash for a moment a few seconds after the sealer is powered off. This is normal.)</p>
 5 Roller Temperature Error	<p>The temperature of the heated roller is out of the optimal sealing range. The problem could be caused by sealing multiple cold samples one after the other, using a sealer that was stored in a cold room, or the presence of hot fluids in the sealing area. Wait for the green light to appear before continuing to run samples.</p>
 6 Temperature Stability Error	<p>The heated roller temperature jumped between consecutive reads. Check the roller for debris, and clean the roller if needed. See “Cleaning and preventative maintenance” for instructions.</p>
 7 Temperature Error during Seal	<p>The temperature of the heated roller dropped below sealing temperature while sealing a tray. After the sealing process is complete, the error disappears, but the power light remains amber until the unit heats to the ready state. The problem could be caused by continuous sealing of cold samples or by trays leaking onto the roller, causing it to cool. Wait for the green light to appear before continuing to run samples.</p>
Amber power light does not come on.	<ul style="list-style-type: none">• Make sure the sealer is plugged into a working outlet with the correct voltage.• Make sure the power switch is on.• Check fuses and replace if necessary. See “Changing fuses.”

Symptom	Cause and/or Recommended Action
Green light takes more than 10 minutes to illuminate.	Call IDEXX Technical Service at +1 800 321 0207 or your local distributor.
Green light goes off during operation.	The temperature of the heated roller is below the optimal sealing range. Wait for the green light to appear before continuing to run samples.
Sealer is on, but motor does not start when a Quanti-Tray is inserted.	<ul style="list-style-type: none"> • Make sure the sealer has reached sealing temperature (green light is on). • Make sure the Quanti-Tray is face down in the rubber insert, with the white side of the tray facing up. • Make sure the rubber insert is pushed firmly into the roller until the motor engages it.
The motor starts when a Quanti-Tray is inserted but does not pull the tray through.	<ul style="list-style-type: none"> • Make sure the Quanti-Tray is correctly seated in the rubber insert and that the insert is pushed firmly into the roller until the motor engages it. • Clean the rubber insert. See “Cleaning and preventive maintenance” for instructions. • Make sure the insert is completely dry. Wipe it, if necessary.
Quanti-Tray and rubber insert are partially stuck inside the sealer.	Press and hold the Reverse button to reverse the motor until the tray is completely ejected from the input slot. After the rubber insert is removed, make sure that the insert is dry. Wipe it, if necessary. Note: If the tray has gone all the way into the sealer, do not use the Reverse button. Doing so can cause the tray to become lodged inside the sealer. (See the next symptom.)
Quanti-Tray and rubber insert are stuck inside the sealer and are not accessible from the input slot.	If the end of the tray is inside the inlet, remove the input shelf and the lower door, and then press the Reverse button. CAUTION: Do not touch the heated roller!
Sealer makes a loud hissing noise when sealing, or liquid drips from the bottom of the sealer. Green status light may go out after trays are filled.	<p>The tray was overfilled. The sealer automatically removes excess sample from the tray and discards it into the internal drip tray.</p> <p>To prevent the problem:</p> <ul style="list-style-type: none"> • Do not fill trays with more than 100 mL of sample. • Avoid excessive water on the surface of the trays. <p>To clean the sealer see “Cleaning and preventive maintenance” for instructions on cleaning the inside of the sealer.</p> <p>Important: Do not remove the outer shell of the sealer or tilt the sealer if sample is dripping from the unit. Wait until dripping stops and the sealer is cool. See “Cleaning and preventive maintenance” for instructions.</p>
Debris on roller is affecting the seal quality.	Check the roller for debris, and clean the roller if needed. See “Cleaning and preventive maintenance” for instructions.

Cleaning and preventive maintenance

Cleaning the rubber insert

You can autoclave the rubber insert or clean it with mild detergent, diluted bleach, or isopropyl alcohol, taking the usual precautions when handling such liquids. Be sure to clean the rubber insert if it shows any signs of built-up grime and ensure the rubber insert is dry prior to use.

Cleaning the outside of the sealer

Clean the outside of the sealer with a soft, dry cloth or with a soft cloth moistened with water, mild detergent, diluted bleach, or isopropyl alcohol, taking precautions when handling such liquids.

Cleaning the inside of the sealer

Routine maintenance and prompt cleaning after a spill will help maintain sealer performance. Follow the instructions below.

CAUTION: Do not open the access doors of the sealer or tilt the sealer if sample is dripping from the unit. Wait until dripping stops and the sealer is cool. For troubleshooting or repairs other than cleaning, contact IDEXX Technical Service at +1 800 321 0207.

To clean the inside of the Sealer:

1. Power off the sealer: Unplug the sealer and allow it to cool for 2 hours.
2. Open the sealer:

Opening a Sealer PLUS with a locking access panel:

- a) Use a flathead screwdriver to unlock the access panel, turning the screw 90° clockwise.



2a.

- b) Press in the tabs on both sides of the lower access panel, and then slide the access panel out of the sealer and set aside.



2b.

- c) Press the round indentation in the upper access door to push the door inward.



2b.



2c.

Opening a Sealer PLUS without a locking access panel:

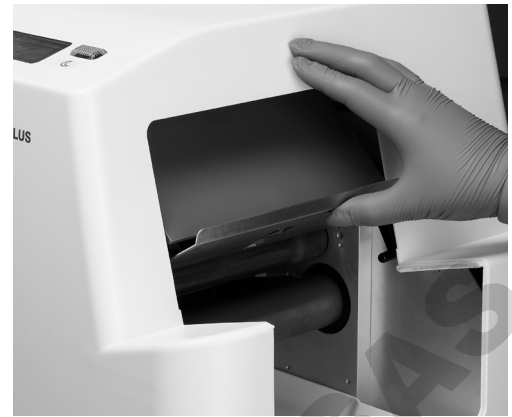
- a) Press in the tabs on both sides of the lower access panel, and then slide the access panel out of the sealer and set aside.

- d) Lift upward to rotate the upper access door fully into the sealer, exposing the rollers. When the upper access door assembly clicks into place, the sealer is ready for cleaning.

3. Clean the rollers:

CAUTION: Do not touch the upper roller if it is hot.

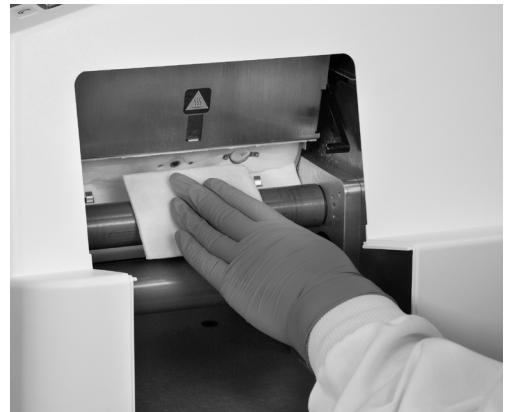
- a) Soak up excess water from the drip tray, and then lift up and remove the drip tray from the bottom of the sealer.
- b) To decontaminate the rollers, use a soft cloth moistened with mild detergent, diluted bleach, or isopropyl alcohol. Use alcohol only if the roller has cooled completely.
- c) To remove debris from the rollers, ensure the roller is cool and dry. Lightly scrub the roller with a plastic non-scratch scouring pad. Do not use sharp materials, as this can damage the coating on the roller. Wipe remaining debris from roller using a soft cloth or paper towel moistened with mild detergent, diluted bleach, or isopropyl alcohol.
- Do not clean or contact the white insulating layer.
 - Roller and/or white insulating layer may develop discoloration over time, which will not affect sealer performance.
 - **Note:** Not all sealers have a white insulating layer.
- d) Use paper towels or a soft, dry cloth to dry the rollers, interior surfaces, and drip tray.



2d.

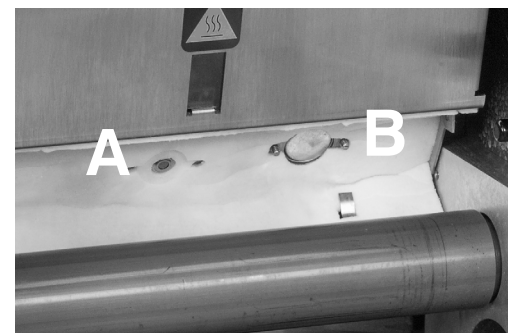


3a.



3b.-3d.

- e) To remove debris from sensors A and B, use a cotton swab dipped in isopropyl alcohol. Sensor B will be silver and shiny when clean.



3e.

4. Close the sealer:

Closing a Sealer PLUS with a locking access panel:

- a) Lift the lever slightly to release the upper access door assembly. The upper access door returns to the closed position.



4a.

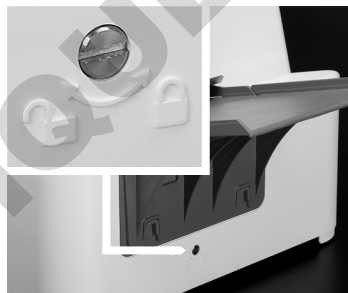
- b) Fully slide the lower access panel back into the sealer until it clips into place.



4b.

Note: You may need to lift up on the metal insert platform while sliding the lower access panel into place. Make sure the upper door is flush with the face of the enclosure when you lift up on the platform.

- c) Use a standard flathead screwdriver to lock the panel, turning the screw 90° counter clockwise. Do not overtighten the latch.



4c.

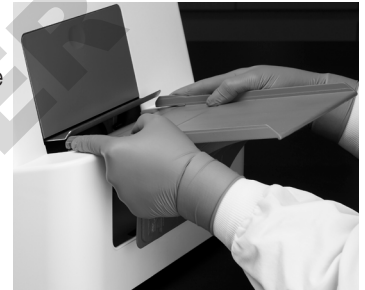
Closing a Sealer PLUS without a locking access panel:

- a) Lift the lever slightly to release the upper access door assembly. The upper access door returns to the closed position.



4a.

- b) Fully slide the lower access panel back into the sealer until it clips into place.



4b.

Note: You may need to lift up on the metal insert platform while sliding the lower access panel into place. Make sure the upper door is flush with the face of the enclosure when you lift up on the platform.

Changing fuses

Fuses are located in the fuse holder beside the power switch.

To change a fuse, turn off the sealer and unplug the power cord before opening the fuse box.

Use two 10 A, 5 x 20 mm, time-lag fuses, designed to IEC or local requirements.

Technical support

North/South America: +1 207 556 4496 or +1 800 321 0207

Brazil: +0800 728 2482

Europe: +00800 4339 9111

UK: +44 (0) 1638 676800

China: 021- 61279528 or 400-678-6682 ext. 2

Japan: +81 3 5301 6800

Australia: +1300 44 33 99

idexx.com/water

DOMINIQUE DUTSCHER SAS