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RIGEL MEDICAL

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Need Help?

For technical issues please visit **rigelmedical.com** and view the Application Notes in the Downloads tab. Application Notes are regularly updated and will most likely cover any common issues.

For further assistance please contact your Rigel Medical supplier or use the following contact details to speak to a member of the Rigel Medical team:

Sales and Delivery enquiries
Tel: +44 (0) 191 587 8730 **Fax:**+44 (0) 191 586 0227
Email: sales@rigelmedical.com

Technical enquiries
Tel: +44 (0) 191 587 8701
Email: support@rigelmedical.com

Service, Calibration and Repair
Tel: +44 (0) 191 587 8739 **Fax:** +44 (0) 191 518 4666
Email: service@calibrationhouse.com

Remember to activate your 2 year warranty* by registering your Uni-Therm with Rigel Medical

Go to **rigelmedical.com/registerproduct**

*Terms and Conditions apply

THE QUEEN'S AWARDS FOR ENTERPRISE: 2012

Rev 1.3
Part No. 398A554

Rigel Uni-Therm Electrosurgical Analyser

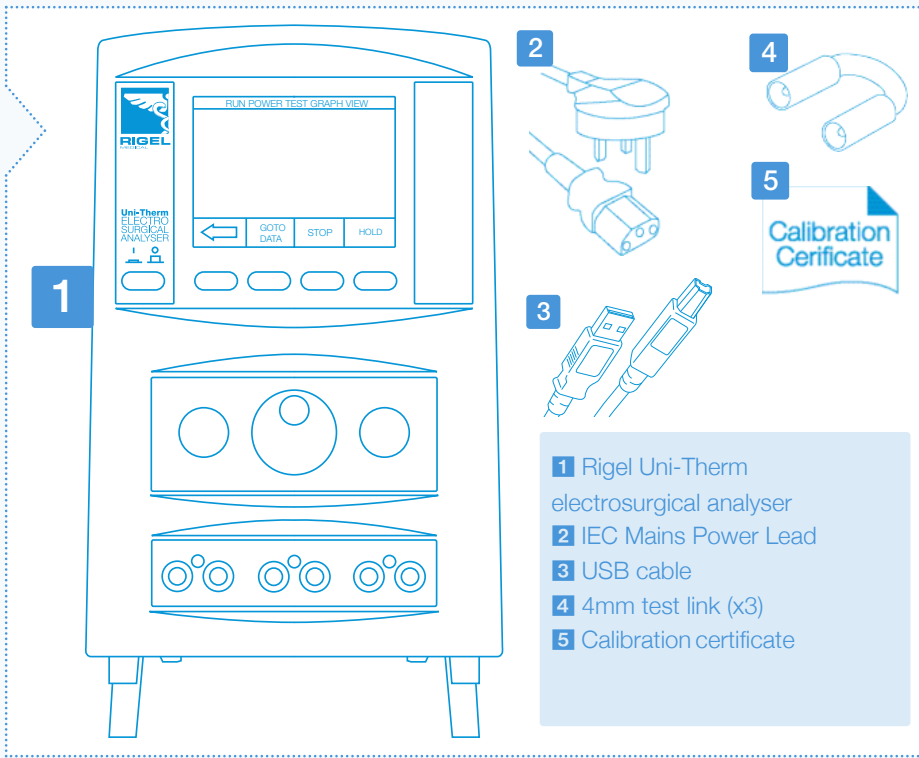
Quick Start Guide

Introduction

The Rigel Uni-Therm electrosurgical analyser is a versatile bench-mounted yet portable tool for testing the performance of electrosurgical equipment.

Utilising a large, full colour graphical display, the Rigel Uni-Therm is the first fully stand-alone electrosurgical analyser that can offer true intuitive, user friendly operation and operator safety.

What's in the box?



1 Rigel Uni-Therm electrosurgical analyser
2 IEC Mains Power Lead
3 USB cable
4 4mm test link (x3)
5 Calibration certificate

NOTICE

If any items are missing on receipt of your new unit, please contact your equipment supplier immediately.

User notes

The following symbols are used throughout this Rigel Uni-Therm Quick Start Guide.

⚠ Indicate[s] a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ Indicate[s] a hazardous situation which, if not avoided, could result in minor or moderate injury. CAUTION [signs] may be used to alert against unsafe practices that can result in equipment damage.

Warnings and Cautions

⚠ **Users** - The Rigel Uni-Therm electrosurgical analyser is designed for use by adequately trained technical personnel only.

⚠ **Operation** - The Rigel Uni-Therm electrosurgical analyser is designed for use within the published specifications. Any application outside of these specifications or any unauthorised user modifications may result in hazardous conditions or improper operation.

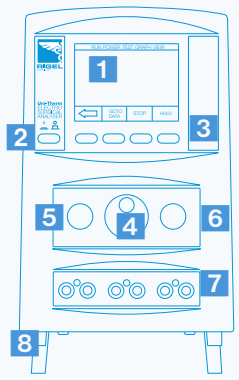
⚠ **Operating conditions** - When operating the Rigel Uni-Therm at its maximum capability, during certain power tests and in an ambient temperature of 40°C, it is possible for the surface temperature of the top cover to exceed 50°C but not exceed 70°C as is permitted under IEC 61010 design requirements.

⚠ **Operating conditions** - The Rigel Uni-Therm is designed to operate between 15°C and 40°C. Exposure to temperatures outside of this range may adversely affect the performance of the device.

⚠ **Connections** - Do not connect active power electrodes to the front panel of the Rigel Uni-Therm. The front panel is for low voltage connections only (ie. REM connection/ footswitch). Failure to comply with this may lead to internal damage of components and will void the warranty.

⚠ **Cleaning** - The Rigel Uni-Therm case can be cleaned with a damp cloth with, if necessary, a small amount of mild detergent. Do not allow liquid inside the Rigel Uni-Therm or near the sockets. Do not use abrasives, solvents, or alcohol.

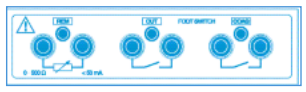
1 Getting to know your Rigel Uni-Therm



1. Large colour graphic display
2. On/Off Button
3. Function Keys F1 - F4
4. Rotary encoder for menu navigation
5. Start/OK Button
6. Stop/End Button
7. Front connection panel
8. Folding legs at front base of unit

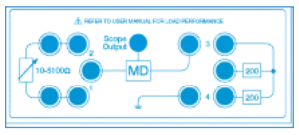
The Uni-Therm interface has been segmented into a safe, low voltage area (front panel) and high voltage area (side panel)

Front connection panel



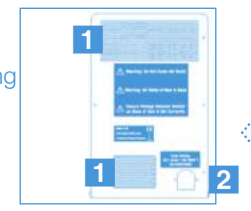
Connect the REM/plate security electrodes to the front panel for the REM test.
Connect the footswitch contacts to the front panel for automatic footswitch control.

Side connection panel



Connect the HF active and neutral electrodes to the side panel using the on-screen connection diagrams for reference.
The scope output can be used in conjunction with the additional scope cable accessory (P/N: 367A950) to view the waveform shape.

Rear panel



1. Ensure the ventilation holes are free from obstruction during operation to allow for maximum unrestricted air flow.
2. Power fuses are located below the IEC connector.

2 Before you switch on!

Ensure the correct incoming mains supply voltage range is selected
The mains selector switch is located on the base of the unit. Please ensure this switch is set to either 230V AC ± 10% or 120V AC ± 10% as required.

Ensure legs are deployed
The Rigel Uni-Therm has two legs at the front base of the unit. These are designed to raise the front of the unit to allow clear airflow for the base fan and also to improve the viewing angle of the colour graphic display.

Ensure all ventilation holes are free from obstruction
The Rigel Uni-Therm has several fan and air vents located around the casing.
Please ensure these are free from obstruction to allow for maximum air flow.

Active power connections
Ensure no active power electrodes are connected to the front panel of the Rigel Uni-Therm. The front panel is for low voltage connections only (i.e. CQM connection or footswitch)

Instruction Manual

This Quick Start Guide is designed to be used in conjunction with the full Rigel Uni-Therm instruction manual.

The Rigel Uni-Therm electrosurgical analyser instruction manual is available as a download from **rigelmedical.com/rigel-downloads**

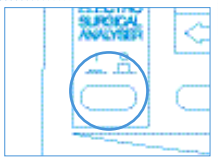
The download section also includes a free trial for our asset management software, Med-eBase.

3 Getting Started

In this section we will identify the Rigel Uni-Therm electrosurgical analyser's basic functions in order to get you started.

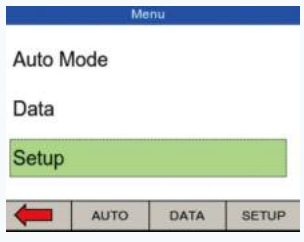
Switch on

Turn on your Rigel Uni-Therm by pressing and holding the green **ON** button until the Rigel splash screen appears.

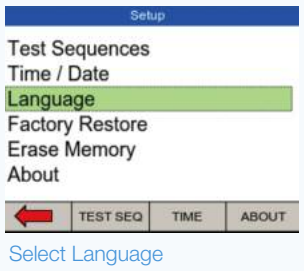


Change the language settings

From the start screen use the rotary encoder or function key F1 to select Menu



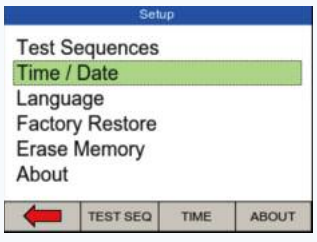
Select Setup



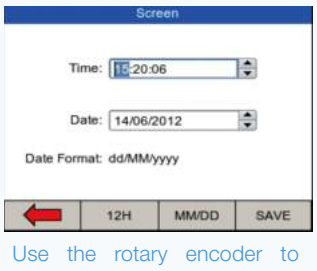
Select Language

Scroll to the required language and select to confirm

Set the time/date



From the setup menu select Time/Date

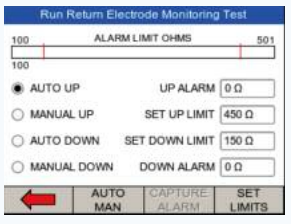


Use the rotary encoder to change the Time/Date and press function key F4 to Save

4 Perform a test

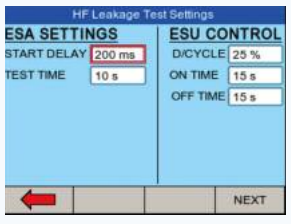
REM Test

- Select the REM test from the main menu;
- Select automatic or manual control and press the green button to start the test (for automatic mode only)
- To stop the test, press CAPTURE ALARM.



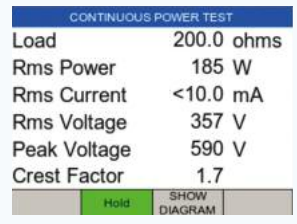
HF Leakage Test

- Select the HF LEAKAGE test from the main menu;
- Select the appropriate test using the rotary encoder. Change between the graph mode and description mode, using the function keys.



Power Test

- Select the POWER test from the main menu;
- Select either CONTINUOUS or GRAPH mode.
- Ensure that the settings (i.e. CUT or COAG) correspond with the connections as these control the automatic footswitch control.



NOTICE

Connections - Remember to use the on-screen connection diagrams as a reference for connecting the active and neutral electrodes and test links.