



Rigel Uni-Therm

High current electrosurgical
analyzer



The Uni-Therm offers the latest technology in high frequency power measurement. It's small, easy-to-use and has a large colour display and innovative navigation, making this a fast, efficient test tool for testing the performance of ESU generators.

Compliant with IEC 60601-2-2, the Uni-Therm electrosurgical analyzer is capable of verifying and calibrating all major electrosurgical generators whilst guiding the user through all test procedures automatically and most of all safe.

Why buy the Uni-Therm?

- > Automatic manufacturer specific test procedures
- > Onscreen power profile analysis
- > Full colour screen user interface
- > Comprehensive data management facilities

Key Features:

- > High Frequency leakage tests
- > Power distribution from 5 to 5115Ω
- > Current measurement up to 6A RMS continuous
- > Return plate alarm test (REM/CQM)
- > On-board automation and data capture

HKMedQC
Wellcome Technology Co., Limited



RIGEL MEDICAL
TESTED, TRUSTED... WORLDWIDE.

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What's in the box?

- > Rigel Uni-Therm
- > Calibration Certificate
- > Mains Power Lead
- > USB Lead
- > 3 x Jumper Links (367A954)

Optional Accessories:

- > Med-eBase test solution software (383A910)
- > Foot switch adaptor cable set (manufacturer specific, please specify)
- > Trolley style hard carry case
- > SMB to BNC Oscilloscope connection lead (p/n 367A950)

Technical Specification:

HF Power Watt (RMS)	True RMS Watts (0 -500W) Refer to load/power graph $\pm$ (1W +5% of reading) 0 6000mA with load bank 0 8000mA external load test $\pm$ (2% of reading +10mA) 0 - 700V $\pm$ (10% of reading +5V) 0 10KV (Peak) Closed load only $\pm$ (10% of reading + 15V) 1.4 20 ($\pm$ Vpeak / V RMS) The higher of the 2 peak voltage measurements is used 30 Hz to 10MHz MHz (-3 dB) 30 Hz to 2.5 MHz (-3 dB) 100 Hz high pass filter 10kV Foot switch delay selectable between 200 5000ms (10ms resolution) 0 - 5115 Ω , steps @ 5 Ω Ceramic Resistors (Non inductive) $\pm$ (1%, + 0.5, -0.5 Ω of set load) See load/power graph Up to 100% at 60 seconds ON time, see load/power graph 2 x 200 Ω $\pm$ 1%, + 0.5,-0.0 Ω 20 Watt (100% duty cycle) 0 - 475 Ω , 1 Ω step Motor driven potentiometer $\pm$ 5% $\pm$ 2 Ω High and low, manual confirmation 0.5V/A, 100mA RF current minimum input, un-calibrated, indication only
Accuracy	
HF Current (RMS)	
Accuracy	
Voltage (RMS)	
Accuracy	
Voltage (peak)	
Accuracy	
Crest Factor	
RMS Bandwidth (instrument only)	
RMS Bandwidth (with load bank)	
Interference Frequency Filter	
Isolation (earth to measurement device)	
Measurement delay adjustment	
Variable Load	
Load Resistor Type	
Accuracy	
Power rating	
Duty cycle	
Fixed Loads	
Accuracy	
Power rating	
Plate Security (REM) resistor	
Accuracy	
Alarm register	
Oscilloscope output	





Service and Warranty

The Uni-Therm comes with a free 24-month warranty, subject to terms and conditions, available at

Technical Specification (Continued):

Connections

Variable load 0 5115Ω	2 x 4mm Red = Active, Black = Plate
Fixed Load x 200Ω	1 x 4 mm black (common), 2 x 4 mm red 2 x 4mm White
Measuring device (MD)	SMB coaxial connector
Oscilloscope output	2 x 4 mm black
REM test 0-475 ohm	2 x 4 mm - yellow, Single relay contact
Remote foot switch control (CUT)	2 x 4 mm - blue, Single relay contact
Remote foot switch control (COAG)	PC interface
USB B port	USB Keyboard
USB A port	

Data Storage and Recall

Memory	4Mb
Output	CSV format, sss, test sequences, results, reference power graphs.

General Specifications:

Dimensions	370mm x 300mm x 204mm
Weight	11kg
Operating Temperature	10°C to 40°C
Storage Temperature	0°C to 50°C
Mains power	115/230 ±10% VAC; 48 to 66 Hz, 35
Humidity	0-90% RH
Fuses	2 x 1.6 A (T) ceramic
Altitude	2000m
Pollution Degree	2
Environmental Protection	IP40
Overvoltage Category	CAT II 300V

Rev 5

