

# The 3-channel Profiler for Perfect Rack Oven Baking Results



This V-M.O.L.E.® based kit is the perfect solution for Retail and In-Store bakers' oven and proofer profiling. The portable, programmable Rack Ovens BakeWATCH® Kit offers an inside-the-oven method to record and document both baked goods and oven temperature variations in deck and rotating rack ovens for the dual purposes of balancing baking consistency and optimizing product quality to give your business that competitive edge.

## Features:

- **Oven Balancing** - The BakeWATCH® profiler, housed in an insulated stainless steel enclosure, rides with 3 thermocouple sensors placed to read oven ambient temperatures from high, medium and low racks that indicate balance or a need for adjustments.
- **Baked Goods Optimization** – From a balanced oven, inserting each sensor halfway into top rack, middle and bottom rack dough pieces provides signature S-Curve data from the baked goods' perspective. Software displays Yeast Kill, Gelatinization and Arrival as % of bake time automatically for an optimized bake every time.

*From Fresh to Frozen to Par Bake – Bake Better Bread with BakeWATCH®*

## Product Benefits:

- Produce consistently High Quality Product – no matter the pan location
- Speeds new “free-from” varieties development
- Reduce Waste – Improve Yields & Profits

## Oven Benefits:

- Replace opinions with facts to control baking variables
- Optimize existing oven(s) capacity when faced with expansion
- Profile Proofer humidity with VaporWATCH® or MiniM.O.L.E.® option – freezers too

## System Includes:

- V-M.O.L.E.® 3-Channel thermal profiler
- 3 - Color Coded 0.010" Type K Thermocouples - 2.1M (7 Ft)
- BB-50 Thermal Barrier
- USB PC Interface Cable
- M.O.L.E.® MAP Software
- Quick Reference Guide
- Calibration Certificate
- Carrying Case

**Order ECD P/N: E54-2253-15**



North & South America  
ECD World Headquarters  
4287-B SE International Way  
Milwaukie, Oregon 97222-8825 U.S.A.  
Tel: +1 503 659 6100 | + 1 800 323 4548  
Fax: + 1 503 659 4422  
E-Mail: sales@ecd.com | Web: bakewatch.com

ECD Asia/Pacific  
Singapore  
Mobile: +65 9692 6822  
Fax: +65 6241 9890  
E-Mail: ecd.asia@ecd.com

ECD Europe/Africa/Middle East  
Mobile: +48 512 659 100  
E-Mail: ecd.europe@ecd.com

• Top rated customer support • No-cost ECD Training Tools • Award winning software •

# SPECIFICATIONS



## THERMOCOUPLE SENSORS

Up to 3 Type K ECD Mini-Thermocouples

## COMMUNICATIONS

Interface: USB Compliant (charge;upload;download)  
Cable: USB Type A, Male-to-Mini B, 5 pin Male, 1m (3')

## DATA ACQUISITION

Sampling Interval: 0.1 seconds to 24 hours  
Data points: 500,000 for all 3 channels  
Data runs stored: 96 (Standard Thermal Profiles)  
Accuracy: +/- 1°C (1.8°F)  
Resolution: 0.056°C (0.1°F)  
Measurement range: -200°C to 1271°C (-328°F to 2320°F)

## POWER

Battery: Lithium Polymer - Rechargeable, 340mAh  
Charge Protection: optimized for lithium polymer  
Charge time:  
• Full: 8 hours  
• Partial: 15 min. charge allows one 10min. data run  
Charge Capacity:  
• 50 ten minute data runs\*  
Battery Life: 300-400 charging cycles or 3 years (Minimum)  
Charger input current: 175 ma via USB Interface  
Operating Range: 4.2V to 3.2V

\*New, fully charged Power Pack

## PATENT

U.S. PATENT No. 7,653,502

## PHYSICAL

Dimensions (L x W x H):

- Profiler: 145mm (5.7") x 64mm (2.5") x 7.62mm (.3")
- Barrier: BB-50: 49mm (1.93") x 122mm (4.80") x 49mm (1.93")

Weight:

- Profiler: 0.068 kg (2.4 oz)
- Barrier: BB-50: 2.38kg (5.25lbs)

## OPERATIONAL ENVIRONMENT

Humidity: 0-85% RH (Non Condensing)  
Operational range: -40°C to +85°C (-40°F to 185°F)  
Temperature:

	BB-45	BB-50	BB-80
204C/400F°	25 min.	40 min.	90 min.
260C/500F°	15 min.	30 min.	60 min.

## COMPLIANCE

EN 301 489-01 V1.8.1:2008  
EN 300 328 V1.7.1:2006  
EN 301 489-17 V2.1.1:2009  
EN 60950  
R&TTE 1999/5/EC  
Low-voltage Directive 2006/95/EC  
RoHS 2002/95/EC  
WEEE 2002/96/EC



## WARRANTY

2 years parts and labor

## WEBSITE

[www.bakewatch.com](http://www.bakewatch.com)



North & South America  
ECD World Headquarters  
4287-B SE International Way  
Milwaukie, Oregon 97222-8825 U.S.A.  
Tel: +1 503 659 6100 | +1 800 323 4548  
Fax: +1 503 659 4422  
E-Mail: [sales@ecd.com](mailto:sales@ecd.com) | Web: [bakewatch.com](http://bakewatch.com)

ECD Asia/Pacific  
Singapore  
Mobile: +65 9692 6822  
Fax: +65 6241 9890  
E-Mail: [ecd.asia@ecd.com](mailto:ecd.asia@ecd.com)

ECD Europe/Africa/Middle East  
Mobile: +48 512 659 100  
E-Mail: [ecd.europe@ecd.com](mailto:ecd.europe@ecd.com)

• Top rated customer support • No-cost ECD Training Tools • Award winning software •