

RAPID | SIMPLE | SELF-CONTAINED | LOW-COST | RELIABLE

## High performance gradient thermal cycling for both microplates and microarrays

The Akonni TruCycler Satellite Thermal Cycler is a high performance bench-top thermal cycler system with a capacity for 96 x 0.2 ml tubes or 4 TruArray® slides. The unit is driven by the latest Peltier-based thermal engine and can be controlled by a PC via a USB connection. A mini-network of up to 15 thermal cyclers can be run simultaneously. To achieve maximum TruArray test throughput, up to four TruCycler Satellites can be connected to each PC (or laptop).

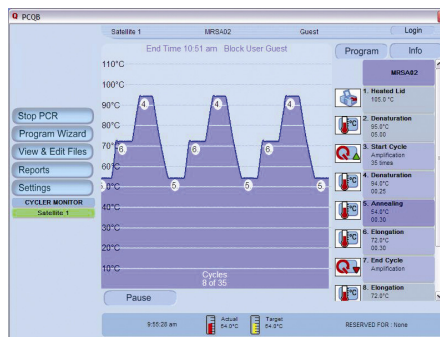
In addition to a standard 96-well microplate block for amplification, all TruCycler Satellite systems include an add-on slide block for performing TruArray hybridizations or on-chip PCR. The thermal and slide blocks can be interchanged in seconds without tools. The instrument is capable of running even the most complex thermal cycling protocols, employing time and temperature increments, and hot start and touchdown steps; its comprehensive run logs provide peace of mind by providing the actual executed time and temperature of every temperature step in a GLP file. The unit is also capable of calculating an overall operational qualification score for every run.

### FEATURES

- **Convenient.** Small, quiet, modular system fits on any lab bench.
- **Productive.** Network of up to 15 units all running independent protocols
- **Flexible.** Interchangeable thermal blocks: 96-well 0.2 ml/microplate and 4x microarray/slide
- **Easy to Use.** Intuitive software for rapid programming and runs
- **Fast.** Ramp rate up to 5 °C/s ; Up to 30 °C gradients
- **Accurate.** Uniformity better than ±0.4 °C; Automatic heated lid with tube or microplate pressure
- **Reliable.** Four independent thermal engines for superior performance



Akonni TruCycler Satellite Thermal Cyclers include a 96-well x 0.2 ml microplate for amplification and a slide block for TruArray hybridizations or on-chip PCR. Up to 15 TruCycler Satellites can be controlled simultaneously by PC through a USB connection.



The TruCycler can run even the most complex thermal cycling protocols, employing time and temperature increments, and hot start and touchdown steps; its comprehensive run logs provide peace of mind by providing the actual executed time and temperature of every temperature step.

## SPECIFICATIONS

Thermal Cycler	
Temperature range of block	4 to 99 °C with tube and plate control algorithms
Sample accuracy	±0.4 °C (20-99 °C); ±1 °C (4-20 °C)
Sample homogeneity	±0.4 °C after 15 seconds (30-99 °C)
Sample volume range	5 to 100 µl
Ramping rate, cooling	up to 4 °C per second
Ramping rate, heating	up to 5 °C per second
Sample overshoot	< 1°C
Thermal Blocks	
Block materials	Nickel coated aluminum blocks with four rapid response temperature sensors
Traceability	NIST traceable temperature calibration
Block configurations	96-well x 0.2 ml/microplate; 4 x slide/microarray
User Interface	
Communication interface	1 x USB client to allow PC control
Pressurised Heated Lid	
Lid temperature	115 °C
Lid pressure	Low (tube) or high (microplate)
Power and Dimensions	
Electronic power supply	International 90-264V, 50-60 Hz AC
Dimensions (w x d x h)	26 cm x 28 cm x 20 cm (10.24 in. x 11 in. x 7.87 in.)
Weight	9 kg (19.84 lb)

## TO ORDER

200-10020

**TruCycler Satellite Thermal Cycler Instrument** with flat block, 0.2 ml tube block, humidity chamber and control software. Instrument includes one year warranty against defective parts.

To order call **+1 301.698.0101**

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