

## Specifications

### MicroCal PEAQ-ITC

Measurement type:

Affinity (K)

Measurement type:

Enthalpy  $\Delta H$

Measurement type:

Entropy  $\Delta S$

Measurement type:

Stoichiometry (n)

Sample volume:

280  $\mu\text{L}$

Cell volume:

200  $\mu\text{L}$

Injection syringe volume:

40  $\mu\text{L}$

Injection volume precision:

< 1% @ 2  $\mu\text{L}$

Sample throughput:

0-12 per 8 h day

Cell material:

Hastelloy

Cell:

Coin-shaped

Noise:

0.15 ncal/s

Temperature range:

2°C to 80°C

Temperature stability:

$\pm 0.00012^\circ\text{C}$

Response time:

8 s\*

Multiple feedback modes:

Yes (passive, high gain, low gain)

Notes:

\*The MicroCal PEAQ-ITC Instrument Response Time is a true time constant. It is the time interval between the first deviation away from the

baseline, and the point on the peak that is 63% of the maximum peak height.

## Operating Environment

Temperature (operating):

10°C to 28°C

Humidity:

0% to 70% RH, non condensing

## Electrical ratings

Power:

100 - 200 V, 50/60 Hz, 130 W

Weight:

13.6 kg

Dimensions (W, D, H):

43 x 38 x 46 cm (calorimeter + wash station)

## MicroCal PEAQ-ITC - Automated

Measurement type:

Affinity (K)

Measurement type:

Enthalpy  $\Delta H$

Measurement type:

Entropy  $\Delta S$

Measurement type:

Stoichiometry (n)

Sample capacity:

384 (four 96 well plates)

Sample tray temperature range:

4°C  $\pm$  2°C at ambient

Sample volume:

370  $\mu$ L

Cell volume:

200  $\mu$ L

Injection syringe volume:

40  $\mu$ L

Injection volume precision:

< 1% @ 2  $\mu$ L

Throughput:

Up to 42 per 24 h (SIM)

Cell material:

Hastelloy

Cell:

Coin-shaped

Noise:

0.15 ncal/s

Temperature range:

2°C to 80°C

Temperature stability:

±0.00012°C

Response time:

8 s\*

Multiple feedback modes:

Yes (passive, high gain, low gain)

Notes:

\*The MicroCal PEAQ-ITC Instrument Response Time is a true time constant. It is the time interval between the first deviation away from the baseline, and the point on the peak that is 63% of the maximum peak height.

## Operating Environment

Temperature (operating):

10°C to 28°C

Humidity:

0% to 70% RH, non condensing

## Electrical ratings

Power Supply:

100 - 240 V, 50/60 Hz, 400 W

Weight:

91 kg

Dimensions (W, D, H):

63 x 35 x 77 cm