



FLWPA

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Lives International ATC-125 Ultra Cooler

The coolest dry-block in the world!

The Lives international ATC-125 ultra cooler is the first dry-block calibrator on the market offering the widest temperature range ever for cooling dry-blocks from 125C down to -90C!

The unique technology sets new standards for optimum temperature calibrations in frozen and deep frozen applications.

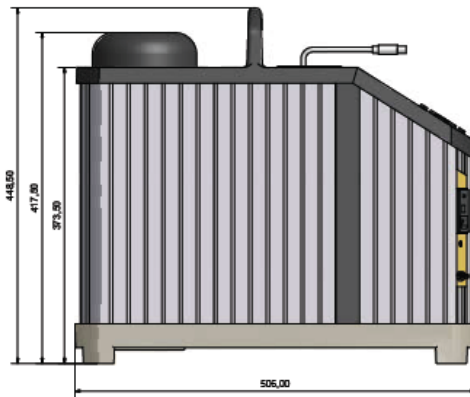


Accuracy & Reliability in Thermal Mapping

Product Description

The Lives International ATC-125 ultra cooler features a unique technology for optimum performance and superior temperature homogeneity throughout the block at very low temperatures. The ATC-125 has a performance equivalent to a liquid temperature bath and features the widest temperature range for any cooling dry-block on the market today.

Physical Specifications



Instrument dimensions (L x W x H)

ATC-125..... 506 x 200 x 448 mm / 15.7 x 7.9 x 15.7 in

Instrument weight

ATC-125..... 20 kg / 44.1 lb

Insert dimensions

ATC-125 outer diameter29,7 mm / 1.17 in

ATC-125 inner diameter (multi hole) 25,9 mm / 1.02 in

ATC-125 inner diameter (single hole)..... 22,0 mm / 0.87 in

ATC-125 length..... 150 mm / 5.91 in

Weight of non-drilled insert (approximate)

ATC-125.....290 g / 10.2 oz

Miscellaneous

Serial data interface RS232 (9-pin male)

Operating temperature 0 to 40°C / 32 to 104°F

Storage temperature -20 to 50°C / -4 to 122°F

Humidity 0 to 90% RH

Protection class IP-10





Functional Specifications

Mains specifications

ATC-125..... 115V(90-127) / 230V(180-254)
Frequency, non US deliveries 50 Hz \pm 5, 60 Hz \pm 5
Frequency, US deliveries 60 Hz \pm 5
Power consumption (max.) ATC-125 300 VA

Temperature range

ATC-125 Maximum 125°C / 257°F
Minimum @ ambient temp. 0°C / 32°F -90°C / -130°F
Minimum @ ambient temp. 23°C / 73°F -90°C / -130°F
Minimum @ ambient temp. 40°C / 104°F -73°C / -99°F

Stability

ATC-125..... \pm 0.03°C / \pm 0.054°F

Measured after the stability indicator has been on for 10 minutes.
Measuring time is 30 minutes.

Accuracy (model B) with external STS reference sensor

ATC-125 B \pm 0.06°C / \pm 0.11°F

12 month period. Relative to reference standard. Specifications by use of the external JOFRA STS-100 reference sensor (see specification sheet SS-CP-2290, which can be found at www.jofra.com)

Accuracy (model A+B) with internal reference sensor

ATC-125 A+B..... \pm 0.3°C / \pm 0.54°F

Resolution (user-selectable)

All temperatures 1° or 0.1° or 0.01°

Radial homogeneity (difference between holes)

ATC-125..... 0.01°C / 0.02°F

Immersion depth

ATC-125..... 185 mm / 7.3 in

Well diameter

ATC-125..... 30 mm / 1.18 in

Heating time

-90 to 125°C / -130 to 257°F..... 40 minutes
23 to 125°C / 73 to -257°F..... 20 minutes

Cooling time

125 to 23°C / 212 to 73°F 25 minutes
23 to -80°C / 73 to -112°F 70 minutes
-80 to -90°C / -112 to -130°F..... 30 minutes

SYNC output (dry contact)

Switching voltage Maximum 30 VDC
Switching current Maximum 100 mA