

SENSOQUEST Labcycler 48s



Labcycler 48s

Labcyler 48s has a gold coated silver block with 48 wells for 0.2 ml tubes in an array of 6 x 8. The thermal conductivity of silver with 429 W/mK resulted in a better block uniformity in contrast to aluminum (237 W/mK). Working with single tubes and stripes is possible. The gold coated silver block results in high cooling and heating rates: 5.0°/s during real operations. A coloured touchscreen and a well-known graphical user interface results in an easy to use handling. 680 programs can be stored in directories that can be optionally protected by passwords. The Labcyler 48s has programmable temperatures and time in(de)crements, ramp rates and of course a gradient. A cheaper version without gradient function is available.

SensoQuest offers two version: Labcyler 48s without Gradient and Labcyler 48 Gradient.

Gradient: Up to ± 10 °C from the centre of the block, this means 20 °C from left to right.

Product	Line voltage	Order number
abcyler 48s	200 – 265 V	013-103
abcyler 48s Gradient	200 – 265 V	013-104
abcyler 48s	100 – 130 V	013-107
abcyler 48s Gradient	100 – 130 V	013-108

Technical Data

Line voltage	100 V to 130 V, and 200 V to 265 V, 50 to 60 Hz
Power consumption	Maximum 180 W, standby 25 W
Heating rate	5 °C/s, during real operations
Cooling rate	5 °C/s, during real operations
Noise	Idle 38dBA, typical 44dBA, maximum 48 dBA
Display	TFT illuminated colour display ¼ VGA, 5.7" diagonal, 320 x 240 pixel, touchscreen

Heated Lid	Automatic, up to 110 °C
Dimension	Length: 37 cm; width: 20 cm; height: 16 cm
Weight	7.8 kg
Keyboard	Softkeys on the touchscreen depending on the context
Interfaces	RS232
Languages	English, German, Spanish & Chinese
Programs	680 standard programs, or at least 3000 steps, the last 16 program runs can be displayed any time, re-start function, programmed and manual pause
Password protection	Configurable up to 64 users
Administration	Administrator rights: Reading & Writing
Copy function	Intersystem-copy-function with Labcycler 48 & 192s, Labcycler Basic, and Labcycler C
Gradient	Gradient capable, 20 °C, ± 10 °C
Temperature	Minus 5.0 °C to 99.9 °C
Homogeneity	± 0.25 °C @ 55 °C, ± 0.4 °C @ 95 °C
Pre(Inc)reagents	Time: ± 99.99 s, temperature: ± 9.99 °C
Instant incubation	Yes, e.g. at 0.0 °C, 26 °C, 37°C, and so on