



designed for scientists



MATRIX Delta Plus

/// Технический паспорт

Matrix Delta plus heats and cools reliably with variable inserts. Whether blood samples, pharmaceutical agents, DNA/RNA samples or ELISA assays - reaction vials and plates with even the smallest volumes are reliably tempered in all laboratory applications.

In addition, Matrix Delta plus comes with numerous user-friendly features:

- Large and clear display with a convenient menu structure allows for an intuitive operation
- Reduced waiting time through fast heating and cooling rates of up to 5.5 °C/min (heating) or 2 °C/min (cooling, at set-point temperature between ambient temperature and 30 °C below ambient temperature)

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- Firm quick-release fastener for quick and easy changing of the inserts/attachments as well as an automatic attachment detection
- Automatic performance of heating and cooling tasks through programmable ramps
- Aluminum die cast housing ensures secure positioning, excellent stability and everyday robustness

The device is ideally suited for numerous applications in laboratories, such as:

- Tempering of samples
- Synthesis of cDNA
- Enzyme-catalysed linking of RNA or DNA (ligation)
- Gentle thawing of sample material
- Structural change of DNA, RNA and proteins (denaturation)
- ELISA assays



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Технические данные

Maximum load [kg]	0.3
Разрешенное время во вкл. состоянии [%]	100
Таймер	да
Дисплей таймера	TFT
Контроль времени мин. [s]	1
Контроль времени макс. [min]	6000
Режим работы	timer, continuous and program operation
Работа с микротитрационными планшетами	да
Рабочая температура мин. [°C]	Температура окр. среды -30
Диапазон настройки температуры мин. [°C]	-10
Макс. Температура нагрева [°C]	110
Мощность нагрева [W]	100
Контроль нагрева	TFT
Колебание температур нагрева [±°C]	1
Temperature control accuracy [±°C]	0.5
Temperature stability [°C]	0.5
Temperature homogeneity [±°C]	0.5
Heating rate [°C/min]	5.5
Индикатор температуры	да
Cooling Rate [°C/min]	2
Cooling Power [W]	72
встроенный блок охлаждения	да
Number of exchangable attachments	10
Безопасный нагрев [°C]	145
Размеры [mm]	216 x 127 x 351
Вес [kg]	9.5
Допустимая температура окружающей среды [°C]	5 - 40
Допустимая относительная влажность [%]	80
Класс защиты согласно DIN EN 60529	IP 21
Разъем RS 232	да
Разъем USB	да
Напряжение [V]	100 - 240
Частота [Hz]	50/60
Потребляемая мощность [W]	230
Fuse	2x T4A 250V