



Thermal Cycler DNA

- TC-3000 is space saving, low cost and reliable personal cycler, designed for research and teaching laboratories.
- TC-412 is a full size thermal cycler, high performance, reliable at affordable price.
- User-friendly interchangeable block system for TC-412
- Adjustable heated lid. (100°C to 115°C)
- Both models can be connected to a PC along with other Techne cyclers.



| Specification | | | |
|---------------------------|-----------------------------------|---------------------|---------------------|
| Model | | TC-3000 | TC-412 |
| Block Format | 0.5ml capacity | 20 | 60 |
| | 0.2ml capacity | 25 | 96 |
| Block Temp. | Maximum ramp rate | 3.6 °C/sec | 2.6 °C/sec |
| | Block uniformity @ 50 °C | ±0.1 °C | <±0.3 °C |
| | Temperature range | 4 °C to 99 °C | 4 °C to 99 °C |
| Heater Lid | Selectable heated lid temperature | 100 °C to 115 °C | 100 °C to 115 °C |
| | Heated lid enable/disable | YES | YES |
| | Over-temperature cut-out | NO | YES |
| Programming | No. of programs | 80 | 80 |
| | Password protection | YES | YES |
| | Programming display | 4-line alphanumeric | 4-line alphanumeric |
| | Auto restart on power failure | YES | YES |
| Dimensions L x W x H (mm) | | 330 x 170 x 190 | 420 x 220 x 260 |

| Order Information | |
|-------------------|--|
| FTC3/02 | TC-3000 thermal cycler for 25 x 0.2ml microtubes, 230V |
| FTX3/05 | TC-3000 thermal cycler for 20 x 0.5ml microtubes, 230V |
| FTC4384D | TC-412 thermal cycler for 384-well microplate, 230V |
| FTC41S5D | TC-412 thermal cycler for 60 x 0.5ml microtubes, 230V |
| FTC41F2D | TC-412 thermal cycler for 96 x 0.2ml microtubes or 96-well fully skirted plate, 230V |
| FTC41H2D | TC-412 thermal cycler for 96 x 0.2ml microtubes or 96-well plate, 230V |
| FTC41FLD | TC-412 thermal cycler for with flat plate for In-situ, 230V |

Hybridisation Incubator

- Compact, easy to use and provides complete protection from hybridisation hazard
- High capacity which can hold up to 24 mini-tube or 6 unique large tubes
- Hybridisations can be performed with a minimal volume of 5 ml of probe
- Unique double-glazed glass door, providing durable protection



| Specification | |
|---------------------------------|-------------------------|
| Model | Hybridiser HB-1D |
| Max / Min Temp. | 100 °C / ambient +10 °C |
| Adjustable Rotation Speed | 0, 5 to 20rpm |
| Adjustable Rocking Platform | 5-20 or 15-60rpm |
| Stability in Chamber / Tube | <1.0 °C / <±0.1 °C |
| Uniformity in Chamber / Tube | <±1.5 °C / <±1.0 °C |
| Set point resolution / Accuracy | 0.1 °C / <±0.3 °C |
| Size L x W x H (mm) | 285 x 385 x 555 |

Gelation Timer

- Used to measure the transition from liquid to solid during polymerization
- Stops automatically when gelation occurs
- Easy to use, push button display
- Plungers are removable for easy cleaning
- Sample cups and disposable plungers are available



| Specification | | |
|------------------|----------------------|---------------|
| Model | GT-5 | GT-6 |
| Rotation speed | 1rpm | 10rpm |
| Timer resolution | 1min / 0.1min (6sec) | 0.1min (6sec) |



香港科學儀器社有限公司
Che Scientific Co. (Hong Kong) Ltd.

Hong Kong Head office:

Unit D, 18/F, Roxy Industrial Centre, 58-66 Tai Lin Pai Road, Kwai Chung, Hong Kong

TEL: (852) 2481 1323 FAX: (852) 2418 1302

E-mail: sales@chescientific.com Website: www.chescientific.com



浙江科通儀器有限公司
Zhejiang Fortune Scientific Co. Ltd.

TEL: (86 571) 8729 7500 FAX: (86 571) 8729 7511

E-mail: sales@fortunescientific.com.cn

Website: www.fortunescientific.com.cn

Guangzhou Branch:

TEL: (86 20) 8130 7388 FAX: (86 20) 8108 4925

E-mail: guangzhou@fortunescientific.com.cn



Temperature Controlled Circulating Bath

- 4 Types of thermoregulators and 5 size of baths available
- High temperature stability
- PC software for programming and control
- Dip and flow cooler available for achieve low temperature up to -40 °C

| Specification | | | | |
|------------------|---------------|----------------|----------------|----------------|
| Model | TE-10A | TE-10D | TE-20D | TE-20HT |
| Temp. Range* | -20 to +95 °C | -40 to +120 °C | -40 to +200 °C | -40 to +250 °C |
| Controller | Analog | Digital | Digital | Digital |
| Stability @40 °C | ±0.01 °C | ±0.01 °C | ±0.005 °C | ±0.005 °C |
| PC Interface | No | No | RS232 | RS232 |
| Cooling Coil | No | No | No | Option |
| Software | No | No | Accessory | Standard |
| Power | 230V 1000W | 230V 1000W | 230V 1800W | 230V 1800W |

| Bath Capacity | 8L | 12L | 18L | 26L | 48L |
|------------------------|-------------|-------------|-------------|-------------|-------------|
| Int. Dims Lx Wx H (mm) | 240x300x150 | 329x300x150 | 505x300x150 | 505x300x200 | 559x330x274 |
| Ext. Dims Lx Wx H (mm) | 265x325x172 | 354x325x172 | 530x325x172 | 530x325x222 | 594x365x298 |

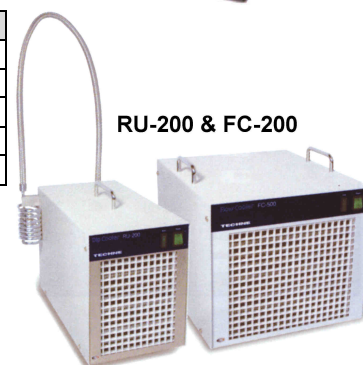
* Refrigeration is required for below ambient cooling



Dip and Flow Cooler

- Use with TECHNE liquid baths for achieve low temperature up to -35 °C
- Compact Size, dip or flow models available

| Specification | | | | |
|---------------------|-------------|-------------|---------------|---------------|
| Model | FC-200 | FC-500 | RU-200 | RU-500 |
| Type | Flow | Flow | Dip | Dip |
| Min Temp. * | -20 °C | -35 °C | -20 °C | -35 °C |
| Size L x W x H (mm) | 420x235x300 | 430x370x325 | 420x235x300 | 430x370x325 |
| Coil size (mm) | --- | --- | 75(dia.) x 85 | 75(dia.) x 85 |



Dri-Block Heater

- Analog control for DB-3 and digital control for DB-3D
- Wide range of aluminum insert block for selection
- Upgrade to 96-well **Sample Concentrator** by adding the gas chamber and stand module FSC496D
- Sample concentrator is used to accelerate concentration of chemical samples in a matter of minutes by using Dri-Block heater with an adjustable gassing hood

| Specification | | | |
|---------------------|-----------------------------|------------------|------------------|
| Model | Sample Concentrator FSC400D | DB-3 | DB-3D |
| Temp. Range | --- | Ambient - 100 °C | Ambient - 200 °C |
| Temp. Stability | @40 °C | ±0.05 °C | ±0.1 °C |
| | @100 °C | ±0.1 °C | ±0.15 °C |
| Temp. Accuracy | --- | ±2 °C | ±1 °C |
| Heat Up Time | 30-37 °C | 8mins | 11mins |
| | 30-56 °C | 12mins | 15mins |
| | Min-Max | 18mins | 25mins |
| Size L x W x H (mm) | 295x240x530 | 279x260x105 | 279x260x105 |
| Gas Supply Pressure | Max 2 psi | --- | --- |
| Power | --- | 230V 50Hz | 230V 50Hz |



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