

Hercuvan

Lab Systems

GS-96/ 60/ 9677/ 384/ 2x48/ 4830/ 322/ 96 PRO Gradient Touch Thermal Cycler

HIGHLIGHTS

- **Easy to program**
8 inches TFT touchscreen display and intuitive graphical programming makes navigation, protocol editing and viewing easier
- **High performance lid**
The lids are engineered with unique clutch mechanism which automatically limit the lid pressure applied against sample container, thus prevent PCR tubes/plates from damage
- **Easy data output**
Able to save and transfer files using USB flash drive
- **Personalized log in users and passwords**
Log in feature allows users to set password for individual account to fully monitor their protocols with more privacy
- **LAN network enabled**
Users able to control up to 30 thermal cyclers simultaneously via PC-controlled network
- **Free and easy software updates**
Software update from USB flash makes the software updates easier
- **GLP report**
GLP report completely records essential information of all PCR run
- **Incubation setting**
Incubation setting module allows users to program desired incubation block temperature and hold time



GS-96/ GS-60/ GS-9677/
GS-384/ GS-96 PRO



GS-2x48/ GS-4830



Scan to
watch video

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GS-96/ 60/ 9677/ 2x48/ 384/ 4830 Gradient Touch Thermal Cyclers are reliable gradient thermal cyclers that deliver exceptional thermal performance for great accuracy and reproducibility in nucleic acid amplification with 8 Peltier elements, 4 independent temperature sensors and high ramping rates up to 5°C/sec.

GS-96 and GS-60 models come with a standard 96-well x 0.2 ml block and 60-well x 0.5 ml block respectively while GS-384 model comes with 384-well block format to handle high throughput PCR experiments. The newly added GS-9677 model features a combined block module to accommodate 96-well x 0.2ml and 77 x 0.5ml PCR tubes.

GS-2x48 model is a dual-block system with two separate 48-well x 0.2 ml reaction modules while GS-4830 model comes with 48-well x 0.2 ml plus 30-well x 0.5 ml block format. User can interchange all of these reaction modules easily without requiring any special tools.

GS-96 PRO Gradient Touch Thermal Cyclers are the upgraded version of GS-96 model that is engineered with HexaPRO Block with 6 temperature zones for PCR optimization.

GS-322 model comes with a triple block that has 3 temperature zones (6 Peltier elements) for precise temperature control and PCR optimization.



GS-322



Touch screen



High performance lid



Heated lid



Cooling Fin

Interchangeable block
(GS-96/ 60/ 9677/ 384/
2x48/ 4830)

Communication ports

TECHNICAL DATA

Specifications	GS-96 / 60/ 9677/ 384/ 2x48 / 4830	GS-322	GS-96 PRO
Capacity	96 x 0.2 ml/ 60 x 0.5 ml/ 96 x 0.2 ml/ + 77 x 0.5ml 384 x 0.02 ml/ 2 x 48 x 0.2 ml/ 48 x 0.2 ml + 30 x 0.5 ml	3 x 32 x 0.2 ml (3 temperature zones)	6 x 16 x 0.2 ml (6 temperature zones)
Program memory	10,000 programs + USB	10,000 programs + USB	10,000 programs + USB
Temperature range	0 - 100°C	0 - 100°C	4 - 100°C
Temperature gradient	30°C	30°C	25°C (max. 5°C zone-to-zone)
Gradient temperature range	30 - 100°C	30 - 100°C	30 - 100°C
PCR volume range	1-100 µl	5-80 µl	1-80 µl
Maximum heating rate	5.0°C / sec	5.0°C / sec	6.0°C / sec
Maximum cooling rate	4.0°C / sec	4.0°C / sec	4.0°C / sec
Temperature uniformity	±0.2°C at 30°C - 72°C ±0.3°C at 95°C	±0.2°C at 30°C - 72°C ±0.3°C at 95°C	±0.2°C at 30°C - 72°C ±0.3°C at 95°C
Temperature accuracy	±0.1°C (30-100°C)	±0.2°C (30-100°C)	±0.2°C (30-100°C)
Ramp rate adjustable	0.1- 5.0°C /sec	0.1- 5.0°C /sec	0.1- 6.0°C /sec
Display	8.0" TFT color touch screen, 800 x 600 pixels	8.0" TFT color touch screen, 800 x 600 pixels	8.0" TFT color touch screen, 800 x 600 pixels
Cool samples to 4°C	Yes	Yes	Yes
Auto restart after power failure	Yes	Yes	Yes
Height adjustable heated lid	Yes	Yes	Yes
Hot lid temperature range	30°C -110°C	30°C -110°C	30°C -110°C
Max. number of steps	30	30	30
Max. number of cycles	100	100	100
Time increment / decrement	1sec - 600sec	1sec - 600sec	1sec - 600sec
Temp. increment / decrement	0.1 - 10.0°C	0.1 - 10.0°C	0.1 - 10.0°C
Max. power consumption	600 Watt	600 Watt	600 Watt
Input voltage	AC 85-264V, 47 - 63Hz	AC 85-264V, 47 - 63Hz	AC 85-264V, 47 - 63Hz
Interfaces	USB, LAN	USB, LAN	USB, LAN
Dimension (W x D x H)	270 x 390 x 255 mm	270 x 390 x 255 mm	270 x 390 x 255 mm
Weight	9.0 kg	9.0 kg	9.0 kg

ORDERING INFORMATION

Cat. No.	Gradient Touch Thermal Cycler
GS-96	Gradient Touch Thermal Cycler GS-96, 96 x 0.2 ml block
GS-60	Gradient Touch Thermal Cycler GS-60, 60 x 0.5 ml block
GS-9677	Gradient Touch Thermal Cycler GS-9677, 96x0.2ml + 77x0.5ml block
GS-384	Gradient Touch Thermal Cycler GS-384, 384 x 0.02 ml block
GS-2x48	Gradient Touch Thermal Cycler GS-2x48, 2 x 48 x 0.2 ml block
GS-4830	Gradient Touch Thermal Cycler GS-4830, 48 x 0.2 ml + 30 x 0.5 ml block
GS-322	Gradient Touch Thermal Cycler GS-322, 3 x 32 x 0.2 ml Triple block
GS-96 PRO	Gradient Touch Thermal Cycler GS-96 PRO, 6 x 16 x 0.2 ml HexaPRO block

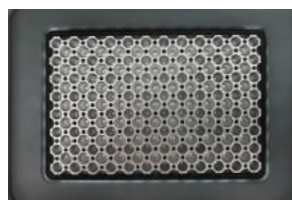
Single Block Module



96 x 0.2ml



60 x 0.5ml



96 x 0.2ml + 77 x 0.5ml



384 x 0.02ml

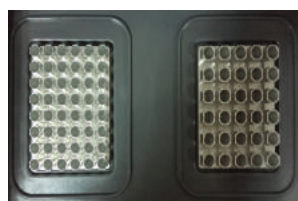
OPTIONAL ACCESSORIES

Cat. No.	Block for Gradient Touch Thermal Cycler
GS-B962	Gradient Touch Thermal Cycler Block, 96 x 0.2 ml
GS-B605	Gradient Touch Thermal Cycler Block, 60 x 0.5 ml
GS-B9677	Gradient Touch Thermal Cycler Block, 96 x 0.2ml + 77 x 0.5ml
GS-B384	Gradient Touch Thermal Cycler Block, 384 x 0.02 ml
GS-B482	Gradient Touch Thermal Cycler Block, 2 x 48 x 0.2 ml
GS-B4830	Gradient Touch Thermal Cycler Block, 48 x 0.2 ml + 30 x 0.5 ml
GS-B322	Gradient Touch Thermal Cycler Block, 3 x 32 x 0.2 ml (3 temperature zones)
GS-B962 PRO	Gradient Touch Thermal Cycler HexaPRO Block, 6 x 16 x 0.2 ml (6 temperature zones)

Dual Block Module

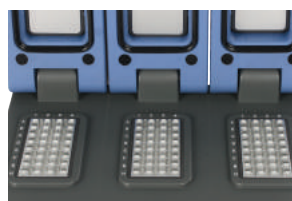


2 x 48 x 0.2ml

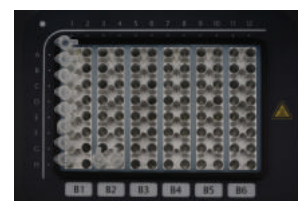


48 x 0.2ml + 30 x 0.5ml

Triple Block Module

3 x 32 x 0.2ml
(3 temperature zones)

HexaPRO Block Module

6 x 16 x 0.2ml
(6 temperature zones)