



Hydrocycler – water bath thermal cyclers for PCR

Combining throughput, efficiency and robust design, the Hydrocycler range of water bath thermal cyclers offer an alternative to traditional peltier based thermal cyclers for high-throughput PCR. The use of water to conduct heat to a PCR sample offers a number of advantages, which in combination with the unique Hydrocycler design allows the highest level of sample throughput and efficiency in a PCR laboratory. The Hydrocycler instrument is available in a range of sizes and formats to suit any scale of laboratory throughput.

Cost-effective PCR thermal cycling

The Hydrocycler instruments are used in our own service laboratories to enable the delivery of cost effective high-volume genomic data sets through:

- Lower purchase cost per plate compared to traditional instruments
- Optimised heat transfer
- Higher throughput
- Increased automation
- Consistent data sets.

Enhanced PCR efficiency

- Reduces run times by up to 25%
- Suitable for 96, 384 and 1536 plate formats
- High volume PCR applications with emulsion PCR
- Even heat distribution eliminates plate-edge effects.



Specifications

The Hydrocycler system is available in four configurations to enable an automated solution for PCR of any throughput.

Description	Size	Power supply	Indicative capacity			*ePCR for SOLiD™ ⁽¹⁾
			96	384	1536	
Hydrocycler 4	10cm diameter x 40cm height	208 - 220V	4	4	4 / 6 ^{(2), (3)}	1 ⁽¹⁾
Hydrocycler 16	78cm diameter x 90cm height	208 - 220V	8 - 12 ⁽⁴⁾	16	14	4 / 6 ⁽²⁾
Hydrocycler 32	78cm diameter x 152cm height	415V	16	32	28	8
Hydrocycler 64	112cm diameter x 165cm height	415V	32	64	56	16

*SOLiD™ is a Trade mark of Life Technologies Corporation

(1) Volume for ePCR for SOLiD is 135 mL per bag. (2) Can be configured to take 6, 384 or 1536 format.

(3) Configuration can be adjusted to accommodate increased plate numbers. (4) The actual number depends on the plate height.



Ordering information

Catalogue number	Description	Units
KBS-0004-001	Hydrocycler 4	1
KBS-0003-001	Hydrocycler 16	1
KBS-0003-002	Hydrocycler 32	1
KBS-0001-001	Hydrocycler 64	1

Complementary products

A range of plate seals for both thermal and laser sealing (required for 1536 plate format) along with the Kube (heat) and Fusion (laser) sealing instrumentation are available.

For more details please contact your local representative or visit our website.



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