



Hybridization Incubators



Hybrigene

The flexibility you need with the quality you expect from an established world leader in temperature control instrumentation. Ideal for blotting techniques in which RNA and DNA or protein are immobilized onto nylon nitrocellulose filters.

Hybrigene

- Temperature range from 10°C above ambient to 80°C
- High capacity which can hold up to 16 mini or 4 large glass tubes
- Flexibility at an affordable price, offering excellent temperature accuracy and uniformity
- The Hybrigene is the compact, stackable alternative to the Hybridiser HB-1D - for when space is important and throughput is not the priority
- Stack up to 3 ovens, saving on valuable laboratory space

Hybridizer, HB-1D

- The famous Hybridizer HB-1D is compact, easy to use and provides complete protection from hybridization hazards
- A temperature range of +10°C above ambient to 100°C
- High capacity which can hold up to 24 mini-tubes or 6 unique large tubes
- Hybridizations can be performed with a minimal volume of 5ml of probe
- Adjustable feet to enable accurate leveling
- Unique double-glazed glass door; quiet and safe, providing durable protection



Hybridizer HB-1D

Technical Specification

	Hybrigene	Hybridizer HB-1D
Maximum glass tube capacity	16	24
Maximum temperature	80°C	100°C
Minimum temperature	10°C above ambient	10°C above ambient
Adjustable rotation speed	0, 5 to 20 rpm	0, 5 to 20 rpm
Adjustable rocking platform	5-20 or 15-60 opm	5-20 or 15-60 opm
Stability in chamber	<1.0°C	<1.0°C
Stability in tubes	<±0.1°C	<±0.1°C
Uniformity in chamber	<±1.5°C	<±1.5°C
Uniformity in tube	<±0.5°C	<±1.0°C
Temp. set point resolution	0.1°C	0.1°C
Absolute accuracy	<±0.3°C	<±0.3°C
Net weight	15kg	20kg
Size L x W x H (mm)	355 x 383 x 432	285 x 385 x 555

Ordering Information

Product Code	Description
FHB4DD	Hybrigene HB-3D hybridisation incubator (no tubes supplied please order separately)
FHB4DDT	Hybrigene HB-3D hybridisation incubator (including 4 large hybridisation tubes FHB16)
FHB1DE	Hybridiser HB-1D hybridisation incubator (no tubes supplied please order separately)
FHB1DG	Hybridiser HB-1D hybridisation incubator (including 3 large hybridisation tubes FHB12)

Hybridisation Accessories

Versatile multiple tube formats; mix and match sizes within an instrument to cater for different throughputs, users and applications.

- Tubes and other accessories can be accommodated at the same time for multiple uses
- Low probe volume, even with large glass tubes. Rotation and design ensure volumes as low as 5ml can be used and recovered
- Unique “slot-in” tubes; with tube rotation speed of 0 to 20 rpm; controllable to suit your application
- New tube holders; each holds up to 16 x 15ml or 8 x 50ml tubes
- Radioactive safe; protective casing and non-drip tube design minimises risk to the user.
- Selectable speed rocking platform; (0 to 60 opm) to cater for membrane-bound and slide-bound hybridisations
- Adjustable feet; for levelling on uneven surfaces
- Static shelf; where heating without movement is required
- Drip tray; removable for easy cleaning

Tubes

Glass hybridisation tubes reduce volumes, simplify washing and improve signals!

- 3 sizes available: small, mini and unique large tubes
- Durable: thick borosilicate glass
- Easy pour: non drip, safe and convenient
- Sealing ring: ‘O’ ring-sealed end caps ensure no leakage!
- Escape thread on screw cap: easy opening with no vacuum problems
- Tube assemblies: adaptors to hold multiple small glass tubes for increased capacity

 For additional information concerning tube dimensions see page 48.

HB-1D Glassware

Ordering Information

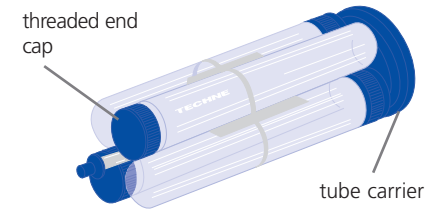
Product Code	Description
FHB11	large glass tube without end caps
FHB12	large glass tube with end caps
FHB32	small glass tube with screw cap
FHB43	multi tube holder for mini tubes HB-1D
FHB41	mini glass tubes with screw caps (pack of 4)
F15ML1TH	tube carrier with clips to hold 16 x 15ml tubes (HB-1D only)
F50ML1TH	tube carrier with clips to hold 8 x 50ml tubes (HB-1D only)

HB-3D Glassware

Ordering Information

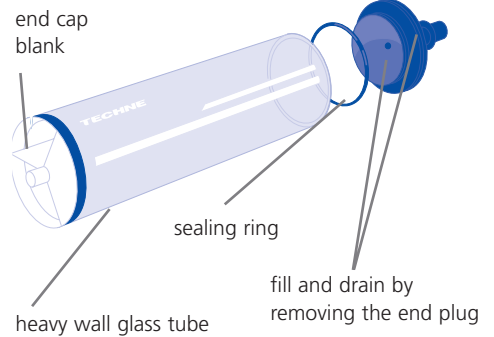
Product Code	Description
FHB16	large glass tube with end caps
FHB36	small glass tube with screw cap
FHB71	small glass tube with screw cap end plug not included (for use with FHB70)
FHB70	multi tube holder for small tubes
FHB72	FHB70 multi tube holder and 3 x FHB71 small glass tubes with screw caps
FHB41	mini glass tubes with screw caps (pack of 4)
FHB61	multi tube holder for mini tubes
F15ML4TH	tube carrier with clips to hold 16 x 15ml tubes
F50ML4TH	tube carrier with clips to hold 8 x 50ml tubes

Mini tube assembly



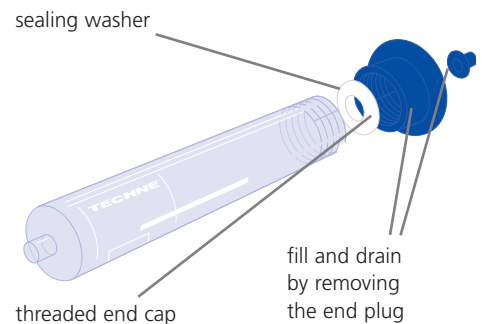
Tubes FHB41
Holder FHB43 (HB-1D only)
Holder FHB61 (HB-3D only)

Large tube (for use without carrier)



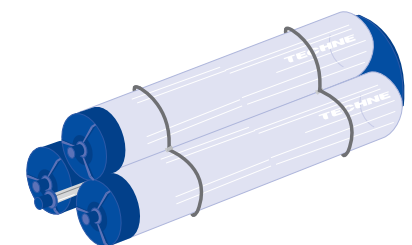
FHB12 (HB-1D only)
FHB16 (HB-3D only)

Small tube (for use without carrier)



FHB32 (HB-1D only)
FHB36 (HB-3D only)

Small tube assembly (HB-3D only)



Tubes FHB71
Holder FHB70

Incubator Accessories

Tube holders

Tube holders with clips, available to carry 16 x 15ml or 8 x 50ml tubes. Ideal for higher throughput of smaller samples.

Selectable speed rocking platform

It sits neatly in the base of the unit while still allowing a number of hybridisation tubes to be placed above. Made from stainless steel, the rocking platform enables membranes to be processed using a wave motion. Speed range of 0 to 60 oscillations per minute.

Static shelf

Up to 2 (Hybrigene HB-3D) or 3 (Hybridiser HB-1D) static stainless steel mesh shelves can be placed into the tube locators allowing the unit to be used as a simple non-motion incubator. Each shelf can hold up to 4kg.

Membrane separators

Strong, re-usable porous mesh sheets for placing between membranes. Ensures even hybridisation when processing multiple hybridisation membranes in one tube. Available in packs of 5 (20x20cm).

Hybridisation tube rack

Useful storage facility for tubes during membrane loading or when not in use. Carries up to 3 large and 3 small tubes.

Ordering Information

Product Code	Description
FHTRACK	HTH-1 tube rack holder (holds 3 large and 3 small tubes)
FMEM2020	Membrane separators 200 x 200mm (pack of 5)
FHB1/PLAT	Rocking platform (HB-1D only) 0-60opm
FHB5H1	Stainless steel mesh shelf (HB-1D only)
FHB4SH1	Stainless steel mesh shelf (HB-3D only)
FHB4/PLAT	Rocking platform (HB-3D only) 0-60 opm
FHB4WALL	Hybrigene HB-3D incubator wall fixing kit
FHB4DKIT	Complete kit for stacking 3 Hybrigene HB-3D units



Holder F15ML1TH (HB-1D only)
Holder F15ML4TH (HB-3D only)

(Please note: tubes are not supplied)



FHTRACK (tube rack)



Adjustable speed rocking platform



Static shelf

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