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Introduction

Vitl Life Science Solutions specialises in the design, development and manufacture of high-end laboratory and analytical instruments. From best-selling microplate heat sealers, to a collection of programmable mixers, shakers, vortexers and readers; Vitl products are suitable for a breadth of applications including, ELISA, DNA isolation, enzymatic reactions and sample incubation.

We are committed to supplying world-leading products to the life science industry with a growing portfolio that is highly regarded for its durability, reliability and efficiency. Our products are available through a network of distributors and trusted OEM partners who ensure we meet the needs of our global customers.

With an unrivalled level of sample care, usability and repeatability, Vitl products are used in laboratories world-wide including, the National Institutes of Health (NIH), Mayo Clinic and the New York State Department of Health.

As a member of the ITL Group (a Gooch & Housego company), we benefit from more than 40 years' design and manufacturing experience of our parent company; and with facilities in the UK, US and China, we are able to provide global support to our customers and distributors.
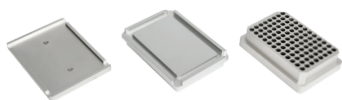
Variable Temperature Heat Sealer (VTS)

The VTS microplate heat sealer offers maximum flexibility without compromising on sealing quality. Stable heat sealing performance ensures one-time sealing, preventing sample loss through evaporation and cross contamination between wells.

Features:

- Adjustable sealing temperature & time
- 125 to 200°C seal temperature
- Unique ergonomic design
- Stable heat sealing performance to ensure one-time sealing
- Audible indication when sealing complete
- Fast warm-up time
- Comprehensive range of heat sealing foils & films available (see page 7)

The VTS requires at least one adaptor plate. Adaptors sold separately.
V902003 VTS Adaptor: Microtitre Plates (skirted)
V902004 VTS Adaptor: 96 Well Plates (semi-skirted/unskirted) V902005 VTS Adaptor: Deep Well Plates

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For technical specifications please visit: **www.vitlproducts.com**

MicroTS Heat Sealer

The Micro TS is a compact, fixed temperature manual heat sealer which is both convenient and easy to use. Weighing only 4kg its lightweight and easy to handle. The Micro TS is ideal for use in low to medium throughput laboratories where space is limited but speed and reliability are paramount.

Features:

- Lightweight (only 4kg)

- Fixed 170°C seal temperature

- Ergonomic design

- Compact unit with a small footprint

- Fast warm-up time

- LED status lights

- Comprehensive range of heat sealing foils & films available (see page 7)

MicroTS requires at least one adaptor plate. Adaptors sold separately.

V903003 MTS Adaptor: Microtitre Plates (skirted)
V903004 MTS Adaptor: 96 Well Plates (semi-skirted/unskirted) V903005 MTS Adaptor: Deep Well Plates

Vitl Life Science Solutions' range of Heat Sealers are designed to deliver consistent and effective sealing for a variety of microplates during PCR or sample storage.

Choose from our wide range of heat sealing foils and films including clear, peelable, pierceable and solvent resistant seals. See page 7.

Microplates

Microplates are suitable for micro-volume applications such as sample and reagent transfer and storage; ensuring maximum sample recovery when limited sample material is available. Transparent polypropylene provides improved sample visibility, with alphanumeric coding making it easier to identify individual wells and reduce the risk of errors. For best results, use with the VTS and MicroTS heat sealers.

Features:

- Excellent chemical compatibility
- Temperature Range -80°C to +121°C
- Standard footprint 128mm x 86mm
- Easy-to-read alphanumeric label
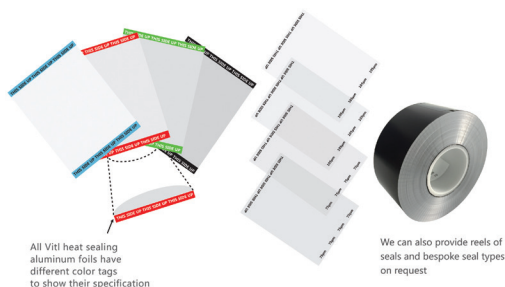- Polypropylene (PP)

Catalogue Number	Quantity	Skirt	Sterile	Well Count	Well Volume
V801001	100	✓	✗	96	0.2ml
V801002	10	✓	✗	96	0.2ml
V801003	10	✓	✓	96	0.2ml
V801004	100	✗	✗	96	0.2ml
V801005	10	✗	✗	96	0.2ml
V801006	10	✗	✓	96	0.2ml
V801007	100	✓	✗	384	25ul
V801008	10	✓	✗	384	25ul
V801009	10	✓	✓	384	25ul
V801013	50	✓	✗	96	1.3ml
V801014	10	✓	✗	96	1.3ml
V801015	10	✓	✓	96	1.3ml
V801016	50	✓	✗	96	2.2ml
V801017	10	✓	✗	96	2.2ml
V801018	10	✓	✓	96	2.2ml

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Heat Sealing Foils & Films

Our comprehensive range of foil and film microplate heat seals are designed for sealing various plate formats; providing optimum protection against sample loss through evaporation making them ideal for long-term storage. For best results use Vitl heat seals in conjunction with the VTS and MicroTS heat sealers.

All Vitl heat sealing aluminum foils have different color tags to show their specification

We can also provide reels of seals and bespoke seal types on request

Features:

- Colour coded for easy identification
- 125mm x 80mm sheets
- All foils & films available in standard packs of 100 sheets
- Custom reels of seals for automated heat sealers are available on request
- Range of seal thicknesses & formats including optically clear, peelable, pierceable & DMSO resistant
- 'This side up' markings to avoid incorrect sealing

Applications:

- Sample Storage
- Sample Archiving
- PCR

Turn over for more information about our range of foils & films

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Heat Sealing Foils & Films

Product	Peelable	Piercable	Temp Range	Polyethylene Plate (PE)	Polypropylene Plate (PP)	Polystyrene Plate (PS)	COC	Colour Code	Catalogue Number
20μm Heat Sealing Foil	✗	✓	-20 to +120°C	✓	✓	✓	✗	Green	V901002
38μm Heat Sealing Foil	✓	✓	-20 to +110°C	✓	✓	✓	✗	Blue	V901003
68μm Heat Sealing Foil	✓	✗	-80 to +110°C	✓	✓	✓	✓	Yellow	V901008
70μm Heat Sealing Foil	✓	✓	-80 to +80°C	✓	✓	✓	✓	Orange	V901010
70μm Heat Sealing Foil	✓	✗	-80 to +80°C	✓	✓	✗	✗	Red	V901001
75μm Clear Sealing Film	✗	✓	-80 to +80°C	✓	✓	✓	✓	75μm	V901005
85μm Heat Sealing Foil	✓	✗	-200 to +110°C	✓	✗	✗	✗	Black	V901004
105μm Clear Sealing Film	✓	✗	-80 to +180°C	✓	✓	✓	✓	105μm	V901006

*All dimensions are nominal. Some variation to be expected.

V901020 Foil Weight (sold separately)

Not sure which heat seal is right for you? Contact us for a free sample pack

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CO-mix

Our laboratory mixer and shaker, Co-mix, offers simultaneous, independently controlled microplate mixing and tube vortexing in one sleek, compact design. It is fully programmable, allowing you to create and store your own unique mixing profiles with variable ramp rates, mixing times and speeds. It offers excellent mixing performance to ensure data accuracy and higher repeatability.

Features:

- 200 to 3000 RPM mixing; 700 to 3500 RPM vortexing

- 3mm mixing orbit

- Create & store user-defined mixing profiles

- Effortless change between operating modes

- Intuitive touch-screen user interface

- Innovative plate-holding mechanism reduces risk of lid wetting

- Simultaneous microplate mixing & tube vortexing function

The Co-mix comes with a full set of adaptors as standard

Vitl Life Science Solutions heating and mixing range focuses on highly controlled and accurate sample preparation.
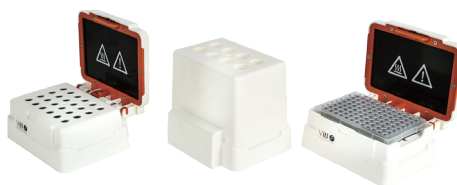
Ther-mix

It is no longer necessary to stand over your samples switching different mixing speeds and temperatures in your protocol, our Ther-mix heated mixer can do that all for you. When combined with our intuitive Heated Modules, the Ther-mix allows you to accurately mix and heat samples with ease. Create and store your own mixing profiles with multiple mixing and heating steps through the easy to use touch-screen.

Features:

- 200 to 3000 RPM mixing
- Interchangeable Heated Modules support various sample tubes (see page 12)
- 3mm mixing orbit
- Capability to create & store your own mixing & heating profiles
- Intuitive touch-screen user interface
- Unique compact design

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Flexi-therm

Maximize your workbench space with our compact programmable heater, Flexi-therm. Coupled with our range of intelligent, intuitive and interchangeable Heated Modules, the Flexi-therm provides highly accurate, repeatable sample heating for a range of laboratory consumables including microplates and various tube formats. The Flexi-therm combines superb temperature control and uniformity with high quality design and versatility, and is ideal for sample preparation and incubation.

Features:

- Interchangeable Heated Modules support various sample tubes (see page 12)

- Individual module settings stored allowing for quick swapping of modules

- Accurate sample temperature display

- Simple user display & touch-control interface
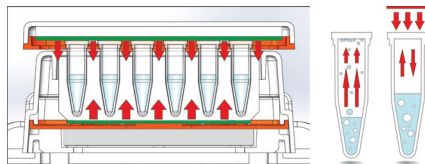
- Small & compact

Heated Module

Traditional incubation methods such as hot blocks and water baths are notoriously inaccurate and provide poor sample care. Optimise flexibility and performance with our range of interchangeable and intuitive Heated Modules. All modules are pre-calibrated with a built-in heated lid to provide direct consumable contact – a more efficient and accurate way of heating compared to just heating the air around the samples.

Features:

- Temperature accuracy 0.1°C

- Temperature uniformity 0.5°C/1% of the target temperature

- Independent control of sample & lid temperatures to reduce condensation & evaporation

- Pre-calibrated to ensure highly accurate temperature control

- Modules designed for use with the Ther-mix or Flexi-therm

- Self-limited mixing speed & temperature for sample care & user safety

Vitl Life Science Solutions can design bespoke Heated Modules based upon your requirements.

Our modules are available for the following vessel sizes:

Module	Description	Catalogue Numbers
HM01	24 x 0.5ml Microcentrifuge Tube	V104001
HM02	24 x 1.5ml Microcentrifuge Tube	V104002
HM03	24 x 2.0ml Microcentrifuge Tube	V104003
HM04	8 x 15ml Conical Tube	V104004
HM05	4 x 50ml Conical Tube	V104005
HM06	0.15ml 96 Well PCR Plate	V104006
HM07	0.25ml 96 Well PCR Plate	V104007
HM09	96 Well 0.2ml PCR Tube	V104009

	Ther-mix	Flexi-therm
Basic Application	Heat/mix	Heat
Instrument Temperature Range	Ambient to 99.9°C	Ambient to 99.9°C
Heating Lid Temperature Range	Ambient to 105°C	Ambient to 105°C
Temperature Uniformity	0.5°C	0.5°C
Instrument Maximum Heating Rate	4°C/min	4°C/min
Mixing Speed	200 to 3000 RPM	N/A
Program	Memory for 100 additional user programs	N/A
Power Supply	100 to 240 V	100 to 240 V
Size (mm) (WxDxH)	190x350x170 (without heated modules)	190x250x80 (without heated modules)
Weight	8 kg	1.7kg
Application	ELISA Sample prep for PCR DNA isolation Enzymatic reactions Bacterial growth Lysis reactions Sample Incubation	Preheating of samples Thawing frozen samples Reactions requiring good thermal control Sample incubation Maintaining sample temperature after mixing with the Ther-Mix

Lu-mini

Maximise your bench space with our compact, lightweight and low-cost luminometer. Introducing the Lu-mini, a robust, single-tube, benchtop luminometer which can be used for a wide variety of assays including, luciferase assays, ATP assays, cell-based assays for drug discovery and many more. We understand that sensitivity, reproducibility and linearity are key features, therefore we've combined innovative software with a broad dynamic range and large storage capacity, all within a compact instrument.

Features:

- Accepts 10 to 15mm round tubes/vials & 10mm square cuvettes

- Fast reading time with optional integration phase

- Versatile protocol selection including single/dual point, peak detect & kinetic data collection

- Storage capacity for up to 1000 test results

- USB connectivity for sample/results data transfer & configuration via included PC App

- Intuitive touchscreen user interface

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Esy-Pik

Vitl Life Science Solutions Esy-Pik tube pickers allow one-handed removal of either 8.5mm microtubes or cryotubes. The Esy-Pik incorporates an eject button to allow pick and place operations whilst avoiding contact with the tube, minimising the risk of heating a frozen sample and possible cross contamination.

Features:

• Single-handed operation

• Low cost

• Temperature and chemically resistant tube contact area

• Reduced risk of thawing of frozen tubes and sample contamination

• Easy-grip

• Lightweight

V201001 Microtube Esy-Pik
V201002 Cryotube Esy-Pik

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Product Description	Cat. No.
Variable Temperature Sealer (VTS)	V902001
VTS Adaptor: Microtitre Plates (skirted)	V902003
VTS Adaptor: 96 Well Plates (semi-skirted/unskirted)	V902004
VTS Adaptor: Deep Well Plates	V902005
MicroTS Heat Sealer (MTS)	V903001
MTS Adaptor: Microtitre Plates (skirted)	V903003
MTS Adaptor: 96 Well Plates (semi-skirted/unskirted)	V903004
MTS Adaptor: Deep Well Plates	V903005
0.2ml 96 Well PCR Plate (skirted, non-sterile, pack of 100)	V801001
0.2ml 96 Well PCR Plate (skirted, non-sterile, pack of 10)	V801002
0.2ml 96 Well PCR Plate (skirted, sterile, pack of 10)	V801003
0.2ml 96 Well PCR Plate (non-skirted, non-sterile, pack of 100)	V801004
0.2ml 96 Well PCR Plate (non-skirted, non-sterile, pack of 10)	V801005
0.2ml 96 Well PCR Plate (non-skirted, sterile, pack of 10)	V801006
25ul 384 Well PCR Plate (skirted, non-sterile, pack of 100)	V801007
25ul 384 Well PCR Plate (skirted, non-sterile, pack of 10)	V801008
25ul 384 Well PCR Plate (skirted, sterile, pack of 10)	V801009
1.3ml 96 Deep Well V-Bottom PCR Plate (skirted, non-sterile, pack of 50)	V801013
1.3ml 96 Deep Well V-Bottom PCR Plate (skirted, non-sterile, pack of 10)	V801014
1.3ml 96 Deep Well V-Bottom PCR Plate (skirted, sterile, pack of 10)	V801015
2.2ml 96 Deep Well V-Bottom PCR Plate (skirted, non-sterile, pack of 50)	V801016
2.2ml 96 Deep Well V-Bottom PCR Plate (skirted, non-sterile, pack of 10)	V801017
2.2ml 96 Deep Well V-Bottom PCR Plate (skirted, sterile, pack of 10)	V801018

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Product Description	Cat. No.
20μm Heat Sealing Foil (GREEN) 100 sheets	V901002
38μm Heat Sealing Foil (BLUE) 100 sheets	V901003
68μm Heat Sealing Foil (YELLOW) 100 sheets	V901008
70μm Heat Sealing Foil (ORANGE) 100 sheets	V901009
70μm Heat Sealing Foil (RED) 100 sheets	V901001
75μm Heat Sealing Film (CLEAR) 100 sheets	V901005
85μm Heat Sealing Foil (BLACK) 100 sheets	V901004
105μm Heat Sealing Film (CLEAR) 100 sheets	V901006
Foil Weight	V901020
Co-mix	V101001
Co-mix Adaptor: PCR 96	V101003
Co-mix Adaptor: 0.5ml	V101004
Co-mix Adaptor: 1.5/2.0ml	V101005
Ther-mix	V102001
Flexi-therm	V103001
HM01: 0.5ml Microcentrifuge Tube	V104001
HM02: 1.5ml Microcentrifuge Tube	V104002
HM03: 2.0ml Microcentrifuge Tube	V104003
HM04: 15ml Conical Tube	V104004
HM05: 50ml Conical Tube	V104005
HM06: 0.15ml 96 Well PCR Plate	V104006
HM07: 0.25ml 96 Well PCR Plate	V104007
HM09: 96 Well 0.2ml PCR Tube	V104009
Lu-mini	V301001
Microtube Esy-Pik	V201001
Cryotube Esy-Pik	V201002

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Interested in discussing OEM opportunities? Contact us.

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Our global network of distributors and trusted OEM partners play a critical role in allowing ease of access to Vitl products to researchers worldwide. Flexibility is keystone; we can provide bespoke solutions to meet your own unique requirements.

If you are interested in becoming an authorised Vitl Life Science Solutions distributor, please get in touch with a member of our team today.

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www.vitlproducts.com

About ITL Group

Established in 1977, ITL Group (a Gooch & Housego company) is the award-winning contract design, development and manufacturing partner of life-saving medical technology. For more than 40 years ITL has provided innovative and reliable solutions to complex engineering and manufacturing challenges.

Based in Ashford, Kent, with operations in the US and China, ITL provides world-wide full product development, design, manufacturing and aftersales service for the commercialisation of medical, diagnostic, analytical and laboratory instruments.

With clients ranging from one-man start-ups to world-leading organisations, ITL maintains a flexible and collaborative approach to product development and is committed to exceeding customer expectations for quality, delivery and service.

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For more information about the ITL Group, please visit:

www.itlmedical.com

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