



MANUFACTURER OF EQUIPMENTS FOR MODERN LABORATORIES

UNIEQUIP

www.uniequip.com



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Dimensions and specifications are subject to change without notice for further improvements on design.
Dimensions may vary dependent on different accessories be used.

UNIVAPO Vacuum Concentrator Centrifuge

Vacuum and centrifugal force combine to provide a gentle and highly efficient method of evaporation, drying and concentrating biological liquids.



UNIVAPO 100/150 ECH

Programmable: Ramping parameters of time and heat can be easily set with the touch of a few buttons on the control panel.



UNIVAPO 100/150 H

Standard selection +39°C

Optional: analog temperature setting up to +80°C

Technical Informations

UNIVAPO ECH: with the new ramping control, 5 steps programmable, we offer a comfortable working procedure for classic evaporation processes. We offer 2 operation modes: normal operation and programmable operation. Large 128x24 Dot Matrix Screen. RS232 for GMP control included. Optional software available.

UNIVAPO H: classic on/off power and heater function. Centrifuge drive starts automatically after closing the perspex lid. We supply two different versions of heating, fixed temperature +39°C or variable over the same capillary thermostat placed in front panel working from ambient to +80°C.

UNIVAPO ECH and UNIVAPO H are supplied with analog vacuum gauge.

Vacuum manometer is chemical resistant.

Both centrifuges are supplied with two pieces of 2-way teflon fitted vacuum valves.

On request we can supply automatic bleeder valve.

UNIVAPO ECH and UNIVAPO H are supplied with teflon coated chambers.

General Informations

The UNIVAPO offers a vacuum-tight rotor chamber. Fast concentration of your samples is guaranteed. The preset relatively low rotational speed of the magnetically driven rotor develops enough centrifugal force so that boiling (foaming) is avoided. Your samples are concentrated in a very gentle manner and are 99% recovered.

Application: For preparative protocols of DNA, RNA, proteins, peptides, amino-acids, hormones, enzymes, with maximum recovery. For all possible analytical protocols.

UNIVAPO Specifications		
Model	UNIVAPO 100 ECH / H	UNIVAPO 150 ECH / H
Fixed speed	1250 rpm	1250 rpm
Temperature	up to +80°C higher temperature is possible over setpoint change.	up to +80°C higher temperature is possible over setpoint change.
Dimension (wxdxh)	290x370x295 mm	340x400x375 mm
Chamber dia.	250 mm	300 mm
Weight	20 kg	30 kg
Electrical supply	220V, 50Hz / 300W	220V, 50Hz / 500W

DISC ROTORS FOR UNIVAPO	
UNIVAPO 100 72-11 for 72 tubes 1,5/2,0ml 40-13 for 40 tubes 12/13mm 24-18 for 24 tubes 18mm 10-24 for 10 tubes 24mm Rotor for 6x15ml Falcon tubes Special rotors on request	UNIVAPO 150 144-11 for 144 tubes 1,5/2,0ml 76-13 for 76 tubes 12/13mm 46-18 for 46 tubes 18mm 30-24 for 30 tubes 24mm Swing-out-rotor for 4 microtiterplates Swing-out-rotor for 2 deepwellplates Special rotors on request

NEW WITH CHAMBER COOLING

Trolley for UNIVAPO SYSTEMS

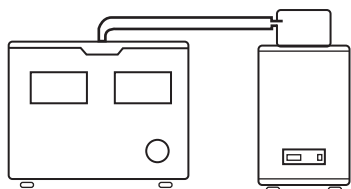
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UNIVAPO SYSTEMS for optimal operation:

UNIVAPO in combination with UNIJET covers 90% of all applications

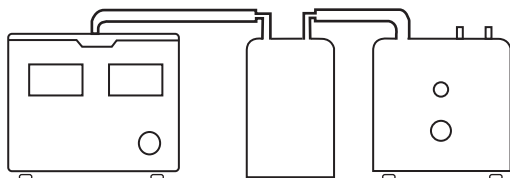
UNIVAPO SYSTEM with Aspirator Vacuum Pump:

UNIVAPO+UNIJET I, UNIJET II or UNIJET IV;



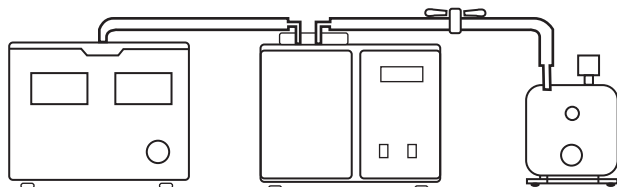
UNIVAPO SYSTEM with Diaphragm Vacuum Pump:

UNIVAPO+VACUCENTER/8, VACUCENTER/2+Washing bottle 1000ml



UNIVAPO SYSTEM with Rotary Vane Vacuum Pump:

UNIVAPO+UNICRYO 2L -60°C, UNICRYO 2x2L+ UNIVAC D04, UNIVAC D08;



UNIVAPO+UNIJET

UNIVAPO GYRATOR

Vortexing Evaporation System



UNIVAPO GYRATOR

Through the Vortex-movements big quantities can be evaporated in short time.

Programmable: Ramping parameters of time, speed and heat can be easily set with the touch of a few buttons on the control panel.

Through the direct innovative heating of the rotor and the rotor chamber we reach a perfect heat transfer to the samples.

Rotor: we design and customize rotors for every request.

Specifications:

External dimensions (wxdxh):	350x430x415mm
Max. temperature :	max. +80°C
Heating power :	1100W
Chamber diameter:	295mm, Teflon chamber
Weight:	27kg
Max. capacity:	6 x 300ml tubes (optional adapter for 6 x 600ml)
Speed up to:	1200rpm (in reference of rotor)
Orbit:	6mm



vertical position of glass tubes spend higher content for better evaporation rate.

Features of the new control:

- 2 Modes: Normal operation and programmable operation
- 5 Steps programmable
- 128x24 Dot Matrix Large Screen
- Soft-Start timer
- Speed setable in rpm

General Information

The UNIVAPO-GYRATOR-Evaporation System is ideal for preparation of samples in variety of application in drug discovery, agrichemistry, mycology testing and environmental and industrial analysis.

The GYRATOR processes large volume samples up to 10 times faster (in reference of liquid) than traditional centrifugal evaporation methods in reference of quantity of the probe material; it is ideal for preparation of samples in variety of applications in toxicology testing and biotechnology research.

The Gyrator is compact, easy to program and accommodates interchangeable sample blocks.

A real alternative to the Baloon Evaporator.

Optionally available:

- Glass lid
- Automatic bleeder valve
- Adapter for a higher rotor chamber (for max. 6 x 600ml tubes)
- Temperature in-sample probe

FOR UNIVAPO GYRATOR SYSTEM WE ADVISE TO USE UNIVAC PUMP

UNICRYO Cold Traps Freeze Drying Table Top Equipments

- Ice condenser 2,4 or 6 liters
- Defrost heater
- Analog vacuum gauge
- Standard temperature -60°C
- CFC free cooling system
- Perspex top with vacuum in- and outlet for cold trap
- Small footprint
- Fuzzy logic
- Transparent Freeze Drying drum for 2, 4 and 6 liters UNICRYO
- Variable drying platforms with heated or non heated surface
- Power supply for heating platform 24 Volt
- Special design on request



UNICRYO MC2L
supplied with disc manifold for FD flask.



UNICRYO MC4L or 6L
supplied with acrylic drum and shelf rack for FD ampoules



UNICRYO FREEZE DRYER DUO SYSTEMS
Two cold traps // All freeze drying accessories available
Available in 2x2 or 2x4 Liters

VACUUM PUMPS

UNIJET Aspirator Vacuum pump

- Energy saving and environmental safe vacuum system.
- Strong vacuum is created by pumping water through Teflon venturi jets.
- Teflon jets are designed for increase of 99% chemical resistance.
- Spends vacuum for Vacuum Concentrators, Geldryers, Blotters ...
- No oil needed, only deionized water.
- Analog vacuum gauge.
- UNIJET II and UNIJET IV are supplied with refrigerated water bath.
- UNIJET IV: you can regulate the vacuum. This model has 4 jet pumps.

Model	UNIJET I	UNIJET II
Air flow :	35liters/min	35liters/min
Pressure:	4mbar at+4°C	4mbar at+4°C
Dim. mm :	370x250x400	362x438x638
Weight :	8 kg	38kg
Power :	160W	500W
No. of jets:	2	2



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UNIVAC Oil Rotary High Vacuum pump

Features: low noise, direct drive, double stage, flexible coupling drive, fully adjustable gas ballast, low maintenance, drop-away carry handle, motor safety switch, oil mist filter included;

UNIVAC D04 Rotary vane vacuum pumps, 4,5m³/h, total vac. 0,05mbar.

UNIVAC D08 Rotary vane vacuum pumps, 8,7m³/h, total vac. 0,05mbar.

UNIVAC D16 Rotary vane vacuum pumps, 16m³/h, total vac. 0,05mbar.



VACUCENTER Diaphragm Vacuum pump

Features: 100% oil-free transfer, chemically-resistant, maintenance-free, environmentally friendly, cool running motor even when in constant use;

Model	VACUCENTER/ 2	VACUCENTER/8	VACUCENTER/240	VACUCENTER/290	VACUCENTER/125
Delivery l/min:	34	34	11,5	11,5	60
Ult. vacuum:	2mbar	8mbar	240mbar	290mbar	125mbar
Dimensions:	297x226x171mm	341x226x166mm	187x123x90mm	187x123x90mm	282x155x210mm
Weight :	13.4 kg	12.6 kg	2.5 kg	2.5 kg	14.4kg



EQUIPMENT FOR ELECTROPHORESIS

UNIGELDRYER 3545

Drying your gels as fast as possible!

- Digital time & temperature control
- Aluminium drying surface: 35x45cm
- Scintered polyethylene sheet
- Glass lid for security and heat storage
- Sealed drying area by silicone cover
- Effective and quick heat transfer
- Fast drying pre-vacuum
- 100% corrosion resistant
- SODA-active-prefilter optional
- RACK-SYSTEM with trolley optional
- Digital control with timer, alarm signal
- Temp. range up to +85°C
- Heating power 600 Watt
- Dimensions (wxdxh): 495x484x85mm



UNIPACK

Power Supplies

High performance, easy to operate instruments for any application from high voltage electrophoresis to high current blotting!

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- Different versions from 100 to 2000V, 400mA to 2 A, up to 200W
- Programmable
- Unique in offering a graphic and text dual display
- 3 Output terminals



MASTERBLOT

Vacuum Blotter & Dot Blotter

- Built-in oil free diaphragm vacuum pump for precise and stable low-vacuum
- Transparent plexiglass chamber (20x30cm), big buffer container
- Pump and chamber are separated for flexible use
- Optional: Dot Blot Frame for 2x ScreenPlate 96
- One instrument for 2 Jobs



Masterblot



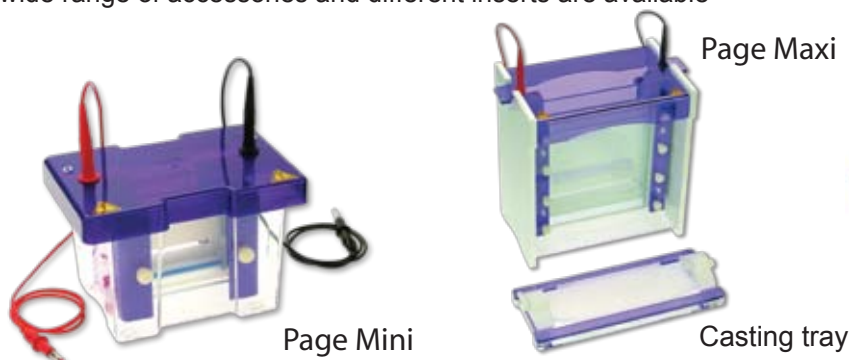
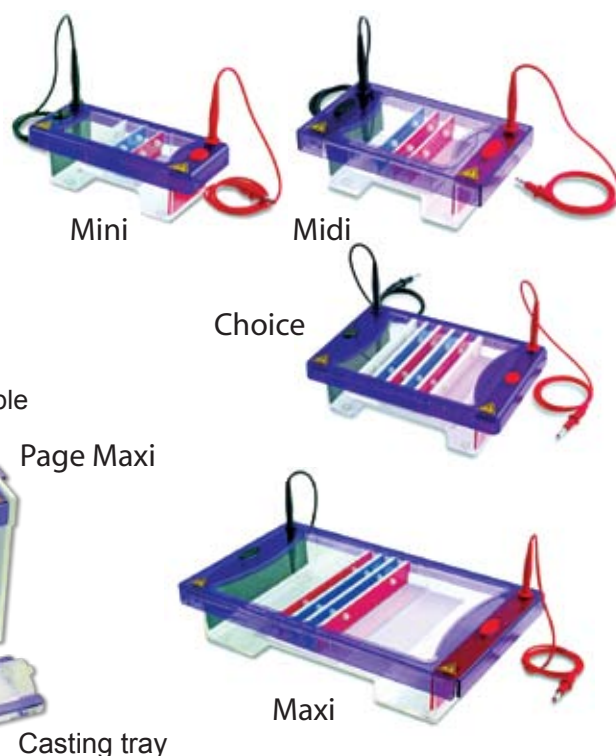
Dotblot

We have also a wide range of Transilluminators & Photo Documentation

Electrophoresis Chambers

Horizontal & Vertical

- Horizontal Chambers Gel sizes from 7x7cm to 26x32cm
- Vertical Chambers Gel sizes 7.5x8cm, 16x17.5cm
- High quality, high reliability, easy handling
- Excellent and reproduceable results
- "Plug and Go" Gel Casting with casting dams
- Up to 200 probes in one gel (Centipede System)
- Automatic and continuous buffer circulation for multiple buffer usage or very long runs
- Additional casting trays for up to 3 gels available
- A wide range of accessories and different inserts are available



We supply DAIICHI SILVER STAIN II 2D kits!

UV-Transilluminator

- Light source: 6x 8W tubes
- Filter size: 20 x 20cm
- Hi/Lo Intensity switch
- UV resistant plastic cover

Models:

Transilluminator 2020-254 20x20cm with 254nm

Transilluminator 2020-312 20x20cm with 312nm

Transilluminator 2020-365 20x20cm with 365nm

Transilluminator 2020-254/365 20x20cm with 254 and 365nm

We have also more models on request...



Digi-Gel System

Gel documentation system

- Great observation from front view window and TFT screen
- Convenient accesses on two sides for gel operation
- No need of EtBR filter while using with MS 312 nm UV Transilluminator
- User friendly
- Compact configuration and size
- Complete package
- Over 8 million pixels digital camera
- Camera max. view filled: 29x22 cm
- Camera max. image resolution: 3,264 x 2,448
- Auto focus
- Multifocus area selection
- 8" TFT liquid crystal screen
- High resolution screen



Laboratory Equipment for DNA application

Thermal Cycler based on Peltier Technology



Gradient Thermal Cycler
MG 48G
MG 96G

Thermal Cycler
MG 48+
MG 96+

Thermal Cycler
MG 16+
MG 25+

- Max. 99 Cycles
- No. of Programs 62
- Large LCD display
- Adjustable Heating Lid
- Block Heating Rate 3°C/sec.
- Block Cooling Rate 2°C/sec.
- Gradient Accuracy: < +/- 0.5°C
- Highest Temp. of Gradient + 99°C
- Unique CombiBlock
- 0.2ml x 48/96wells + 0.5ml x 48/77wells
- Lowest Temp. of gradient + 30°C

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DNA WORKSTATION Eliminates Cross Contamination

- Small footprint, personal workspace
- Avoids cross contamination by suction of the air ducting it through an activated charcoal filter
- Easily accessible HEPA filter system
- Suction airflow 0-100%
- Contamination free lab area
- Germicidal UV-light (1000 hours lifetime)
- Working space (wxd): 470x300mm
- Suction space (wxd): 410x240mm
- Exterior dim. (wxdxh): 470x540x235mm
- Including counter, timer
- Different perspex hoods are available



**UNIEQUIP recommends CAPP AIR pipettes for PCR preparation
(volumes from 0.5µl to 5ml)**



Laboratory Equipment for DNA application

THERMOLEADER

Dry Block Heat Bath HB-110 & HB-120

- Compact Design
- HB110: single block equipment
- HB120: dual block equipment
- Temperature range: up to + 150°C
- Cap-Secure Cover
- Optional external probe
- Microprocessor controlled
- Digital LCD Display
- RS232 connection
- Interchangeable Blocks:
 - 1,5ml / 2,0ml / 0,5ml / 0,2ml
 - / 0,2ml Stripes and 15ml FALCON/
 - 45ml FALCON /
 - 96 place flat bottom well ...
 - and custom tailored blocks.



Mod. HB 120 with blocks

THERMOLEADER

Dry Block Cool and Heat Bath –10°C to +100°C Peltier-based

- Standard Block 40 x 0.5ml + 14 x 1.5ml
- Programmable
- Digital Microprocessor controller
- 128 x 64 Dot Matrix Display
- Temperature increase: 0.1°C
- Temperature calibration: Yes
- Temperature uniformity @ 37°C: +/-0.2°C
- Temperature accuracy @ 37°C: +/-0.2°C
- Operation modes:
 - Constant temperature (-10°C to + 100°C) Timer: 1-9999min.
 - Program operation: 1-4 steps and up to 9 cycles
 - Timer setting separately for each step
- Data Log: RS 232



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THERMOLEADER

Reaction Block

- Economical Multi-Well Stirrer and heating block
- STIRRING+HEATING+COOLING
- Stirring speed 200-3500rpm
- Temperature up to + 200°C
- Standard block for 12x 25mm dia`
- Adapter for 10 or 16mm available
- Timer
- RS232 connection
- Cooling only with waterchiller as UNITHERM 4/14D
- Each well contains a powerful magnetic stirrer



Hybridization Equipment

UNITHERM CO₂ CO₂ Incubator



3503-2-IR / 3517-2-IR

- 50 and 170 liters
- Built-in CO₂ changeover unit (Not mod. 3503-2)
- Coved corners for easy cleaning (Not mod. 3503-2)
- New anti-corrosion anode for easy set-up & tap water use
- Patented copper-housed HEPA filter for superior contamination prevention
- Factory pre-set door thermostat
- Pre-heated CO₂ gas inlet for increased temperature uniformity
- Front-mounted connections ... RS232 interface, parallel interface, CO₂ sample port, alarm contact, safety overtemperature control (3503-2 doesn't have RS232 and parallel interface)
- 4 digital displays for temperature, CO₂, humidity, data communication
- Picture shows model 3517-2
- 220-240 Volt / 50 Hz
- 110 Volt / 60 Hz on request

UNITHERM Incubator



EASY TO OPERATE -
FUZZY LOGIC CONTROL

- Temperature range: RT 5°C - 65°C
- CE confirmation, UNITHERM supports research
- Time setting range: 1-9999min
- **Microprocessor controller** with timing function ensures a stable and reliable use (see optional equipment)
- Independent **alarm system** for temperature - limiting ensures that experiments are safe and no accident can happen
- An **observation window** is installed behind main door. When the glass door is open, breeze circulation and heating system will automatically stop, which ensures no disadvantage of convection.
- Specular **stainless steel chamber**, film heating method ensures quick heating
- **Recorder and printer** (optional) are able to record or print set parameters and trace variation curves of the temperature (4~20mA standard signal)
- **Equipped with UV-lamp (254nm) on request // no front window**

UNITHERM Serial Oven



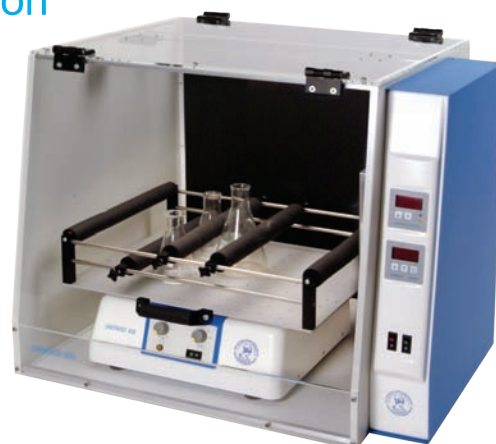
- **PERFECT DESIGN**
- Chamber made in stainless steel
- Door supplied with safety window
- Unique "ebm" ventilation system - Made in Germany
- Microprocessor control unit
- Classic German design
- **EASY TO OPERATE - FUZZY LOGIC CONTROL**
- Temperature Range: RT 5°C - 250°C (300°C on request)
- Open door with reliable anti-thermic handle
- Display for presetted temperature and current temperature.
- Time setting range: 1-9999min
- German standard over temperature protection device (3.1)
- UNITHERM supporting research
- CE confirmation

Incubation Equipment

UNIHOOD

Incubator hood with option for refrigeration

- This portable incubator hood can cover shaker, roller and other temperature sensitive equipments.
- Transparent perspex box
- Black back wall makes sure that the probe material is under best focus
- Temperature range from ambient up to +65°C
- As an option we offer a cooling coil system with UNITHERM 4/14 D chiller to drop the chamber temperature down to +8°C
- Available in three sizes
- Digital temperature and time control
- Power socket on the backside



UNIHOOD with shaker

UNITHERM 8/16 Hybridization Oven with Multifunction

Hybridization flask sizes:

150mm x 35mm	300mm x 50mm
300mm x 35mm	300mm x 70mm

- Integrated UNITWIST
- Orbital Shaker or 3-D Shaker or Rocking Shaker or Vortex Shaker
- Digital control with memory function for ramping, temp. and time and shaking speed
- Rapid heating ramp > max. + 100°C
- Large capacity: 8 or 16 bottles
- Chamber illuminated



UNITHERM 8/16

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Humidity & Constant Temperature Incubator

- Temperature range up to 85°C
- Humidity range up to 95%
- Size 195l -300l
- Specular stainless-steel chamber, semicircular arcs at corners for easy cleaning
- Space between shelves in the chamber is adjustable
- Microprocessor controller for temperature and humidity ensures a reliable and precise control
- Independent alarm system for temperature-limiting ensures experiments run safely that means, no accident can occur
- A test duct is placed at the left side of the chamber (50mm)
- Equipped with Display and printer on request

On request we offer high & low humidity chambers from -60°C to 130°C till 1000l capacity



SHAKING EQUIPMENT

UNITWIST Orbital Shaker Model 300 + Model 400



- Small footprint
- Load independent soft-start
- Different platforms for clamps, spring bars,...
- 4 axes power transfer
- Orbit: 40mm (300) / 20mm (400)
- Speed & Timer function
- Speed range 25-220rpm (model 300)
Speed range 50-300rpm (model 400)
- High loading capacity: 10 kg (model 300)
or 25 kg (model 400)

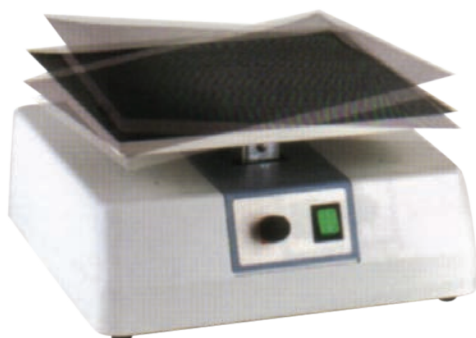
UNITWIST 3-D Rocker Shaker

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- For all laboratory applications
- Variable speed from 10 to 100rpm
- Adjustable agitation – from gentle to vigorous
- Low weight enables mobility
- 10 kg carrying capacity
- In combination with UNITHERM HB water bath for hybridizations, washes, ...



UNITWIST RT Rocking Table Shaker



- For use in cold rooms, incubators, ovens,...
or in combination with UNIHOOOD
- Compact design, smooth running, strong motor
- Adjusted tilt at 4,5° or 5,5° or 7,5° angle position
- Speed from 0-50 oscillation per minute
- Moisture resistant enclosed motor
- Maximum 5 kg loading

UNITWIST MULTISHAKER With unique motion technology

- Multi-orbital shaking motion – continuous or forward & reverse orbital shaking
- Microprocessor controlled
- Multiphase Motor (Step Down Motor)
- Settable from 0 up to 200rpm > 1rpm increment
- Orbit 20mm
- Max. 20kg loading cap.
- Timer 0-999 min



UNITHERM WA 25

Orbital Shaking Waterbath



UNITHERM WA 25
with shaking platform and plastic clamps

First Waterbath with powerful, noiseless magnetic drive.
German technology

- Temperature range up to + 80°C
- Speed range 10-220rpm
- Drive orbit 20mm
- Digital display with acoustic alarm
- Microprocessor control
- Digital temperature and timer setting
- Shaking frequency adjustable
- Stainless steel lid

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UNITHERM HB Hybridization water bath + UNITWIST 3D

- Temperature range up to + 100°C
- Microprocessor controlled
- Fast heating hybr. water bath designed to facilitate Northern and Southern Blot Hybridization
- Combined with UNITWIST 3D Shaker

Different sizes of clamps available:
25ml, 50ml, 100ml, 250ml, 500ml, 1000ml, 2000ml



VORTEXER

VORTEMP

Shaking Incubator for Microtubes and Microplates

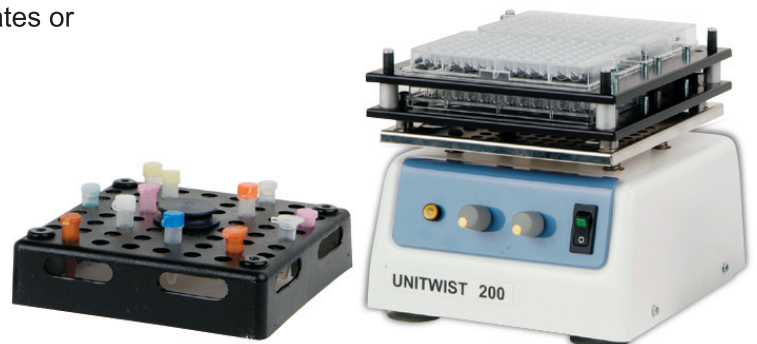


- Programmable speed, time and temp.
- Ramps for temp. and time settable in 5 steps
- Large digital display
- Temperature range from + 37°C up to + 85°C
- Optional + 100°C
- Large capacity: 56 microtubes or 4 microplates
- Usable also in cold rooms
- Easy interchangeable platforms for microtubes and for microplates
- RS232 for GMP control
- Optional control software for pc
- Small footprint

VIBROMIX - UNITWIST 200

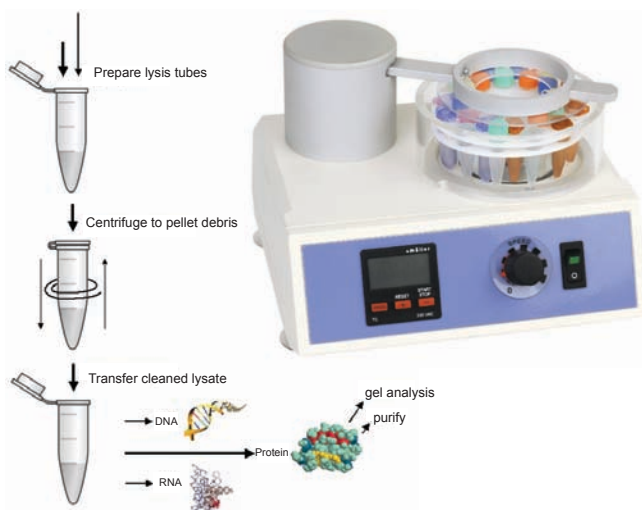
Orbital Shaker for Microtubes and Microplates

- Big capacity: 56 microtubes or 2 microplates or 4 microplates
- Analog control
- Load independent soft-start
- Timer function: 0-30min. or continuous
- Speed 200-1200rpm
- Orbit 3mm
- Small footprint: 170 x 210mm



UNIPREP

Gyrator – 3-D Vortexing of Microtubes



- A new most effective and gentle way of vortexing your samples!
- Rotor capacity 24 microtubes
- Optimal resuspension of DNA
- Ideal for DNA purification protocols
- High quality nucleic acids because of minimal DNA shearing and maximized cell lysis
- Very good breakage even of plant cells
- Control of speed, time and frequency of vortexing guarantees standardization and reproducibility
- Automated procedure
- 3-D movement of microtubes during shaking activity

MAGNETIC STIRRER, VORTEXER, STIRRER

UNIMAG ARE Heating Magnetic Stirrer

- Analog speed and heating control
- Speed up to 1200 rpm, heating setting by thermoelement up to + 350°C
- High strength driving magnet type "PCM"
- Heating plate diameter 155mm
- Stirring capacity up to 15 liters
- Optional digital thermoregulator

Alternative:

UNIMAG AGE - without heating

UNIMAG ATE - strong version for 20 liters without heating

UNIMAG MICRO – for microtitration stirring w/o heating

More magnetic stirrers on request!



UNIMAG VORTEXER

- ZX3 has two operation modes: "Touch mode": you must put the test tube in the rubber cap. "Continuous mode": continuous vibration.
- IR offers two operation modes: "Sensor mode": an infrared system detects the presence of the test tube and starts. "Continuous mode": continuous vib.
- Mountings for a wide range of tubes and microtiterplates are available.
- Small footprint
- Anti-sliding feet



UNIMAG ZX3
The classic Vortexer



UNIMAG IR
The next Vortexer generation

LABORATORY STIRRER

- We supply Laboratory Stirrers for low – high viscosity liquids!
- Stirring volumes up to 70 liters
- Speed up to 2000 rpm
- A wide range of stirring shafts are available
- Also versions with digital display



DEEP FREEZER & REFRIGERATORS

UNICHROMAT Chromatography Cabinet

- Temp. range betw. -1°C to $+18^{\circ}\text{C}$
- Automatic defrost system
- Capacity: 700 / 1500 / 2025 liters
- Digital temperature control
- Alarm system optional
- Lock optional
- Stainless steel chamber
- Fully isolated glass doors
- Special design on request
- We offer special stainless steel sliding drawer for ÄKTA HPLC equipment



UNICHROMAT 700

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UNICHROMAT 1500

**Independent over & under temperature protection
We let you choose your shelf configuration**

//Left chamber / Right chamber

- » Shelf for Äkta-System (100 kg loading) retractable, or 3x Shelves for each maximal 20 kg loading, behind the shelves and between left and right chamber we can mount the column-holders for you.

You like to be mobile - so you get casters.

There are cable ducts mounted on both sides of the unit, covered by a closing plate.



Shelf for Äkta

UNICHROMAT - 1500 - Duo available on request !!

>>Designed with two compressors for heat absorption of two Äkta-systems

WE SUPPLY STAINLESS STEEL DRAWERS FOR ÄKTA SYSTEMS

UNICRYO

Deep Freezer -85°C - Upright & Chest Line

Temperature Control

- Microprocessor temperature
- Digital temperature display
- Adjustable temperature range // -10°C to -86°C with an increment of 1°C

Safety Control

- Malfunction alarm includes audible and flashing alarm for high temperature voltage setting, sensor failure, condenser efficiency effect, high ambient.
- Multiple level protections: password, compressor delay start, extra high
- All separate parts are safety grounded

Refrigeration System

- Optimized cascade refrigeration technology
- High efficiency Danfoss compressor
- Extra thick, high density insulation material for the best temperature press
- Special design of three-layer sealing structure, and heat-insulating system
- Special designed computer controlled system for temperature stage compressor from overloading



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Laboratory Freezer -35°C

- -35°C CFC free cooling system
- Hermetic compressor built in cascade system
- Data acquisition system
- Digital display
- Stainless steel drawers optional
- Key locker
- 160 mm isolation
- Low noise level
- Alarm system
- Sizes: 550 liters, 650 liters;



UNIFLOW

High Operator Comfort

- Sloping front for best supervision
- Clear slide windows give good lighting conditions
- Light damper ensures individual adjustment of light intensity up to 100 Lux
- The front edge slopes to suit the position of the operators arm ergonomically correct
- Control board in eye level for the operator
- Removable work surface for easy cleaning
- For export we offer a floor rack with central support system

High Safety

- True sterility better than class 100 following international standards
- High uniformity with down flow of 0.45m/s +/- 10% with 30% exhaust
- No cross contamination and vibration with more balanced air
- Product protection, H-14 HEPA filter for the highest purity in the working chamber, 99.995% MPPS according to EN 1822

Other features

- Stainless steel with rounded corners
- Divided stainless steel table tops in two versions
- Side and front windows in hardened glass
- Smoothworking chamber with rounded corners
- Clean room design for easy cleaning without dusty places
- Change of HEPA filters is easy done from the front
- Includes DOP/DOS for correctiber test

Fulfills requirements for class 2 safety cabinets according to EN 12469 : 2000, BS 5726, DIN 12950



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UNIFLOW BIO-M

Vertical Laminar Flow

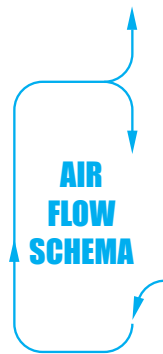
Construction for mod. BIO 48-M/60-M/72-M: Corrosion resistant epoxy powder painted steel

Work surface: Glaze AISI-stainless steel completely perforated to ensure flow laminarity and air recycling at the work surface level

Transparent side wall: Safety glass.

Absolute Filter: HEPA filter, tested with D.O.P. aerosol. Their efficiency, higher than 99.999% at 0.3 micro particle size - 0.001% penetration - ensures performance exceeding requirements of U.S.Federal Standard 209e, British Standard 5295, VDI-2083 and AS 1386-1976.

Motor blower: direct coupled motor, electronic speed controlled to maintain a constant air flow of 0.45m/sec, and compensate for a partially clogged filter up to a maximum plenum pressure of 40mm of water.

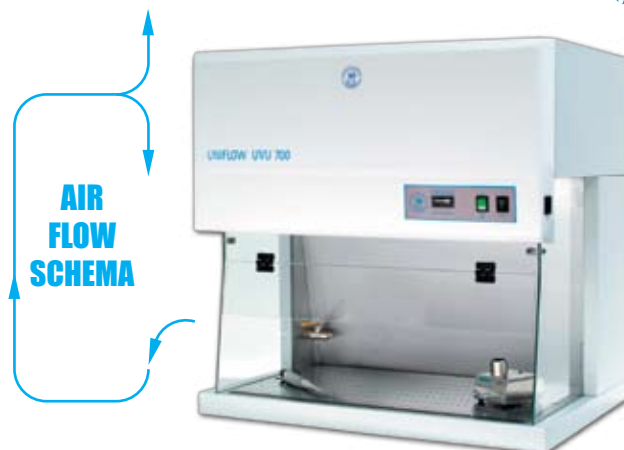


UNIFLOW KC-III CLASS III safety cabinet

- Offers the highest safety class
- The cabinet is sealed and airtight. Work is performed mechanically with gloves
- BS 5726 certification
- During operation there is negative pressure of 200 PA in the working chamber
- The cabine is supplied with a pre-filter and double HEPA filter system
- Safety gate

UNIFLOW UVU 700 Laminar flow cabinet

- Benchtop instrument
- Small footprint
- Dual HEPA filters class 100
- Excellent lighting
- Double protection, for the product and the user
- Vertical recycling airflow
- Stainless steel working surface
- Extreme quiet operation



LABORATORY FUME CUPBOARD With hinged front window

- Microprocessor controlled monitoring system
- Highly effective protection from toxic vapours
- High filtration efficiency
- Large adsorption capacity
- Filter monitoring system
- Ducting
- Flow rate up to 600m³/h
- Inner dimensions: DXH 603x655 mm
- Inner width: 533x1123 mm
- Outer dimensions: DXH 750x1118 mm
- Outer width: 595 - 1185 mm



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UV-Workstation Bench Top Model For Maximum Aseptic Conditions

- Bench Top model
- Equipped with a flowing bactericidal air recirculator
- For DNA/RNA decontamination at the working phase
- 2x 15W UV-lamps 254 nm decrease contamination levels
- 1x 15W lamp provides local illumination
- Long-lived UV lamps (7000 hours)
- UV exposition digital control
- Walls made of 10mm perspex covered with UV-protection film, glass wall optionally available
- Ext. dimensions 690x515x555mm
- 5µ prefilter
- Other sizes on request.



**We supply portable UV lamps !
8 Watt / 254nm and 15 Watt / 254nm**

AUTOCLAVES

Horizontal Table Top Autoclave

- Pre-Vacuum & Dry-Vacuum
- CLASS B – TÜV and CE certificated, ISO 9001
- 16 or 24 liters chamber capacity
- Sterilization temperature + 121°C / + 135°C
- Intelligent design for your professional choice
- Installed 24 programs and special programs for PRION sterilization, LIQUID sterilization and test programs, full automatic processing
- Auto-Fill water system
- Door lock indication



Horizontal & Vertical Automatic Autoclave

- Quick lock lid
- TÜV and CE certification
- Sizes: 34 liters/ 54 liters/ 60 liters/ 85 liters/ 105 liters
- Double interlock
- Graphic display
- Timed free steaming
- Adjustable autom. exhaust
- Optional cooling system
- Optional printer
- Optional exhaust air filter
- Warming & dissolving of culture medium
- Start-Timer by calender
- Memory back up

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CERTOCLAV

The compact sterilizer with + 140°C +2.7bar

- Made of aluminium
- TÜV and CE certification
- 12 or 18 liters
- 2-Step valve
- Thermometer
- Optional MuiltControl for digital control
- Precision manometer with maximum indicator
- Safety lock (no opening under pressure)
- Steam release valve and steam release cock
- Heater included
- Anti-block safety valve



GENERAL LABORATORY EQUIPMENT

UNITHERM WA 8 / WA 12 Water Bath

- With perspex lid
- Digital temp. control
- Temp. up to + 100°C
- Bath volume 8 liters or 12 liters



UNITHERM 4/14D Recirculating Chiller

- Small footprint and big performance
- - 10°C to ambient
- Environmentally friendly, saves water;
- Compact design with CFC-free refrigerant
- Uses : Cool up 4 PAGE electrophoresis chambers, also useful for thermocycler and water bath, cooling coils for UNIHOOO, cooling blocks and rotary evaporators.

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UNIFIRE Laboratory burner with touch-free IR sensor or wireless Foot Pedal Switch

- Totally power cordless
- The UNIFIRE is a safe and efficient instrument for open flame application in the laboratory or fieldwork
- The flame can be ignited by a wireless foot pedal control or by touch-free IR-sensing movement
- With the rechargeable battery, this unit is truly portable when paired with an optional gas cartridge
- Microprocessor technology
- Temp. threshold level 1350°C on liquid gas



Furthermore we supply pH-Meters, Balances, Microscopes, Pipets, Heating-Drying-and Vacuum Ovens, Ultra Sonic Processors, Contamination Monitors, Water Chillers, Thermostates, Ultra Pure Water Systems, ...

LABORATORY FURNITURE & PLANNING AND INSTALLATION OF LABORATORIES

High-Speed Mini Centrifuge UEC 14

- Low noise level - extremely quiet
- Maintenance free drive
- LCD display - easy to follow
- Capacity: 12x1.5/2.0ml tubes
- Separate short spin key
- Sample heating only 12°C after 20 min. at max. speed
- Automatic lid release
- Standard rotor made of anodized aluminium
- Autoclavable rotor (121°C, 20min.)
- Max speed of 14.500 rpm
- Max RCF of 14.000 x g
- RMP/RCF setting as required
- Timer can be set to 99 min.



UEC Force 16/16R Microliter Centrifuge

Small foot print

- Max. RCF: 25.000 x g
- Max. speed: 16.200 rpm
- Available with refrigerating system
- A wide usage of programming options
- Save up to 10 different data sets
- Quiet maintenance-free operation without any carbon dust pollution is guaranteed
- Rotor chamber in stainless steel for easy cleaning



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Refrigerated Z36 HK Z366 Standard

- Max. speed: 2000 rpm
- Max. RCF: 29068 x g
- Max. volume: 6x 250ml
- Speed range: 200-20000 rpm
- Maintenance free induction drive
- Microprocessor with large LCD display
- A large variety of rotors and accessories - high versatility
- Simple one handed operation - even with gloves



*The best universal centrifuge
for your laboratory*

Water Purification Equipment

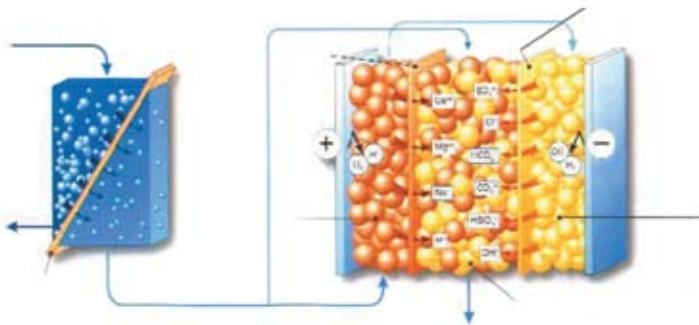


Our ultra pure water systems exceed all reagent grade water quality standards including: ASTM type 1, NCCLS Type 1 and DIN ISO 3696 Type 1 standards.

ULTRA-PURE WATER SYSTEMS with integrated TOC Monitoring

UniEquip ultra pure systems line incorporates all known high-end purification technologies and materials including mixed bed resin (electronic -grade), acid washed activated carbon, synthetic carbon, ultrafilter, sterile filter and UV-oxidation to produce the best reagent grade water. The UniEquip ultra pure water systems, optional with integrated TOC measurement, purify the water down to a TOC level which has never been reached before. Cartridge replacement is simple and fast due to quick connectors and easy access. All operating data can be recorded by an integrated RS 485 interface.

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REVERSE OSMOSIS SYSTEMS

Contemporary clear design combined with top level technology - these are the compact reverse-osmosis systems, UniRO... and UniRO...plus. Possible applications for the UniRO...series are the supply of automatic washers and the deionization of raw water. UniRO...plus is the combination between reverse-osmose and electro-deionisation. Output from 5 l/h to 100 l/h, with accessories like softener, storage tank, booster pump and much more.



DEIONIZERS

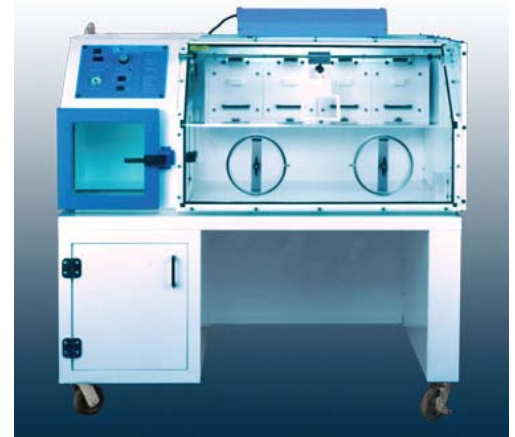
Do you need a deionization system for water purification? Do you want uncomplicated operation with unsurpassed reliability? Then the UniEquip Deionizers are exactly what you are looking for.

Our varied assortment ranges from pressureless plastic equipment to high-value pressure-resistant stainless-steel equipment with a basic capacity of 600 to 15,000 liters. We can offer you our systems tailored to the requirements of your laboratory.

BACTRON - ANAEROBIC CHAMBERS

Bactron Anaerobic Workstations (Glove Boxes) have made a name for themselves over the last fifteen years. As more labs realize the cost savings involved with moving from vacuum jars or bags to anaerobic workstation, they also begin realizing the improvement in successful culturing and identification. The Bactron anaerobic environmental chambers designed to allow efficient and dexterous glove-free handling and inspection of samples. Modular systems within the Bactron anaerobic chamber facilitate the completion of procedures from unpacking material to inoculation, incubation, inspection and recovery -- all without a single exposure to oxygen.

Applications Include: Anaerobic Microbiology Assays, Clinical Microbiology, Anaerobic Tissue Culture Research, Anaerobic Bacteriology.



Bactron II



Bactron IV

The following items are included as standard equipment with every Bactron System:

- Vacuum Pump
- Interior Electrical Outlet
- Sleeve Assembly with Medium Cuff
- Air lock

A gas supply must be purchased separately. The stand shown in the picture is sold separately.

Bactron I is an ideal first anaerobic chamber. It has about **396 liters workspace** and a **100 plate capacity incubator**.

Bactron II is an economical anaerobic environment system with air lock, **about 490 liters workspace** and a **200 plate capacity incubator** for an optimum productivity in a compact space.

Bactron III is the newest design to join our line of anaerobic chambers. It offers all of the high-value features and essential benefits of the Bactron line. **The 300 plate capacity** designed incubator makes it easy to store a large number of plates, while the small chamber footprint saves valuable laboratory space. It has a working space of about 350 liters.

Bactron IV permits volume handling of anaerobic cultures with maximum operator comfort. **With a 490 liters workspace** and a **600 plate capacity incubator**, it is the largest, most complete anaerobic environmental system available. It requires far less bench space than expected for its capacity and performance features.

Bactron X is designed to provide **490 liters workspace** and glove less dexterity in closed environment industrial, research and development, quality control and packaging applications. Atmospheres of nitrogen, CO₂ or any other inert gas possible.



Bactron X

FOOD & FEED LINE

Leaching Test / Jar Test

Models JLT4 and JLT6 are microprocessor controlled and combine simplicity of use with ergonomic design and reproducibility of operations. The front control panel is slightly bent for an easier setting and visualization of set parameters. The rotation speed, settable from 10 to 300 rpm with a resolution of 1 rpm, is kept constant by continuous alignment to set value. The residual stirring time can be displayed on two different scales: hours and minutes.

The equipment can be used for two different analytical procedures:

- 1) Jar Test for the optimization of coagulants addition to flocculate suspended matter in water treatment plants.
- 2) Leaching Test for heavy metals, by diluted acetic acid or carbon dioxide saturated water, on solid wastes to be sent to dump.



Extractor for raw fiber determination F IV

The analysis of raw fiber in food and feed is important and interesting for several reasons, but some of the technical issues about reliability, reproducibility, easiness of use, were, up to now, only partially solved, whichever method is used. Considering the diffusion of problems related to nutrition in general terms, we introduced the FIWE 6 unit for raw fiber determination, intended for small and medium sample throughput, which is an appropriate answer to those issues.



Heating Digester DK 42/26

with programmable temperature ramps. 42 places digestion unit for test tubes Ø26mm. Setting of temperature and time by an electronic programmer with micro-processor. °C definition from room temperature to +450°C. Setting of heating time up to 120 minutes. With acoustic signal of end of cycle with automatic switch off. Possibility to program up to 4 increases of temperature and times of permanence for each of them. Continuous operation is possible. Efficient vapour removal with the suction cup (on request) without need of fume hood, anyway it can be connected to the SMS scrubber together with the recirculating UNIJET I Aspirator Vacuum Pump for a complete neutralization of fumes.



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Automatic Steam Distilling Unit UDK 142

for determinations of: ammonia nitrogen, proteic nitrogen (Kjeldahl or direct alkaline distillation), nitric nitrogen (after reduction), volatile fatty acids, cyanides, sulphur dioxide, alcohol content, etc. The patented steam generator using deionized water permits to obtain 100ml of distillate in only 3 minutes without any maintenance. An automatic device reduces the consumption of cooling water. An innovative system permits the using of test tubes with different heights or Kjeldahl flasks up to 500ml capacity. All parameters required for the distillation and titration are programmable. The access to the 20 program menus, in 5 different languages, is very simple and intuitive. It is also possible the connection to a keyboard. The unit can be connected to a printer or a PC.



Extractor By Solvents 6 places TYPE SER 148/6

6 places equipment for selective extraction of solid and semisolid products by solvents with Randall technique. A relevant reduction of extraction times is obtained by this technique in two phases with an end solvent recovery. Shortening of extraction times for 20 to 80%. Solvent recovery from 50 to 70%. This equipment is designed for optimizing manuality and allows a completely safe extraction. The whole electric and electronic sections are built with new technology allowing a protection rate IP55. Acoustic and visual signal of cooling water absence. Printing option possible. Complete of: extraction cups, extraction thimbles holder, viton and butyl seals, one pack of extraction thimbles (25 pcs.), operation/methods manual.



www.uniequip.de

Head Office:

UniEquip GmbH
Fraunhoferstr. 11
D - 82152 Martinsried / Munich
GERMANY

Tel.: 0049-89-8575200

Fax: 0049-89-8561304

Email: info@uniequip.de

UniEquip GmbH - Leipzig
Shakespearestr. 20
D - 04107 Leipzig
GERMANY

Tel.: 0049-341-2613190

Fax: 0049-341-9900989

Email: leipzig@uniequip.de

Manufacture:

UniEquip GmbH - Freital
Coschützer Str. 82a
D - 01705 Freital / Dresden
GERMANY

Tel.: 0049-351-6411830

Fax: 0049-351-6411832

Email: freital@uniequip.de

www.uniequip.com