QATM
QUALITY ASSURED

ELECTROLYTIC POLISHER & ETCHER

QETCH 1000

part of VERDER scientific

ELECTROLYTIC POLISHER & ETCHER

QETCH 1000

The Qetch 1000 is a fully automatic electrolytic polisher and etcher with intuitive touch-screen operation. Polishing and etching unit and control unit are separated, also the Qetch 1000 can be used in the lab fume cabinet. A scan function displays the current voltage curve of a material and provides polishing results quickly without structural changes. Handling of the polishing and etching unit was facilitated significantly by the interchangeable 1 ltr. electrolytic tanks. Different electrolytes can be changed and easily stored with lid.
The unit is cleaned with water by a washing program.

EASY OPERATION

Qetch 1000 provides maximum safety and flexibility for the user during the polishing & etching process by intuitive touchscreen-control. Separation of polishing & etching unit from control unit enables operation within a lab fume cupboard.
Option for connecting an additional and an external etching unit increases time saving applications.
The chemical-resistant plastic vessels, also for storage of the electrolytes, are quick and easy to change.

TOUCHSCREEN-CONTROL

The QATM touchscreen surface allows intuitive operation even with gloves.
Up to 200 programs with all parameters can be stored and protected with password (incl. labelling field).

POLISHING AND ETCHING UNIT

The chemical resistant coated stainless steel housing has a large polishing table and can also be used separated from the control unit, e.g. in a lab-fume cabinet.

BASIC MODULE

Qetch 1000 CONTROL UNIT

- intuitive operation via QATM Touchscreen surface, even with gloves
- up to 200 programs with all parameters storable, protected per password (incl. free labelling field)
- current & voltage diagram in real time
- scan function for displaying a current-voltage characteristic graph
- USB interface for creating program backup
- media preparation for connecting a polishing & etching unit and an external etching unit (optional: connection for 2nd polishing & etching unit)
- variable output voltage and process duration
- automatic cooling control for mains water or recooling (current supply via Qetch 1000)
- Aluminium housing, powder-coated
- e-lab ready

Order No.: M6202000

EQUIPMENT

POWER SUPPLY

Equipment 1

230 V/50 Hz (1Ph/N/PE)

Order No.: A6202000

Equipment 2

110 V/60 Hz (1Ph/N/PE)

Order No.: A6202001

POLISHING & ETCHING UNITS

Equipment 1

Polishing & etching unit

- large polishing table incl. set of masks (5 pcs.)
- touch-free pump drive (magnetic clutch)
- stainless steel start button with integrated LED status display
- exchangeable 1 ltr.electrolyte tank made from chemical-resistant plastic (incl. lid)
- max. standard sample height 50 mm (higher samples with ext. anode via magnetic or croc. clips)
- polishing & etching unit can be operated separately from control unit e.g. in lab fume cabinet
- housing made from rust-free stainless steel (chemical-resistant coating) with drip tray
- incl. connection set (electricity/water)

Order No.: A6202003

Equipment 2

External etching unit

- etching beaker ade from stainless steel
- volume 1200 ml

Automatic drive	0-60 V
ØxH	~ 120 x 120 mm
Weight	~ 0.5 kg

Order No.: A6202004

OPTION

EXTENSION FOR CONNECTION

- connection plugs for second etching/polishing unit Qetch 1000

Order No.: A6202005

ACCESSORIES

SET OF MASKS (5 PCS.)

- 0.5 / 1.5 / 2.5 / 5 cm² / blind mask

Order No.: Z6202001

ELECTROLYTE VESSEL

- volume 1 Ltr.
- incl. cover
- made from chemical-resistant plastic

Order No.: Z6202002

CONNECTION SET Qetch 1000

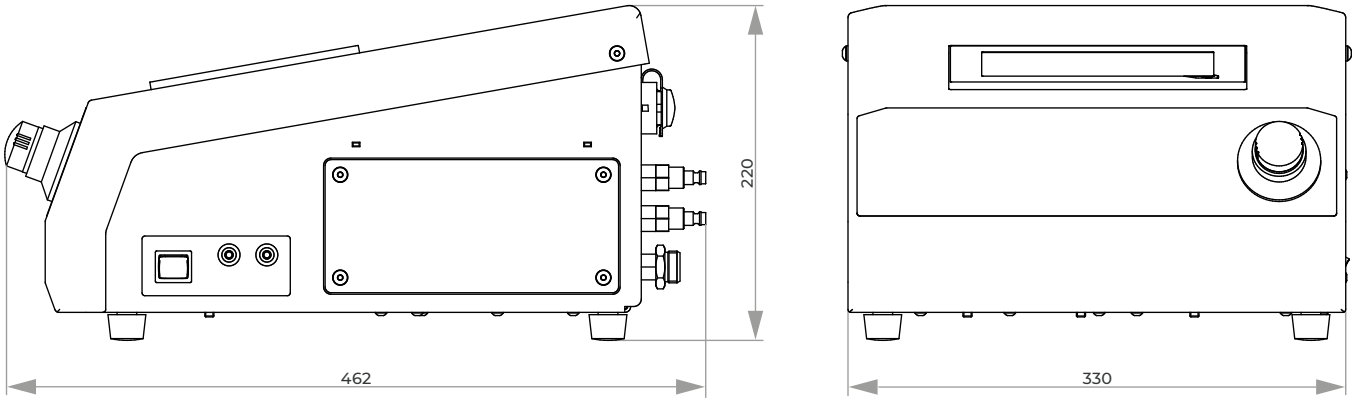
2x pression tubes	R ½"; 2 m

Order No.: Z6202003

SPECIFICATIONS

CONTROL UNIT

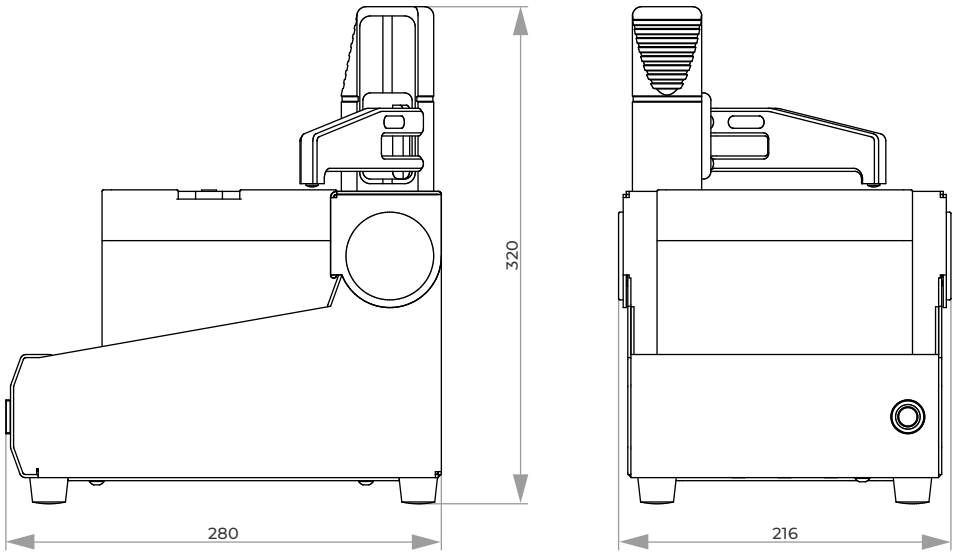
Connected load		2 kVA
Power supply	1	220-240 V / 50/60 Hz (1Ph/N/PE)
	2	110-120 V / 50/60 Hz (1Ph/N/PE)
Current		0-14 A
Working voltage		0-90 V ± 0.1V regulated
WxHxD		~ 330 x 220 x 462 mm
Weight		~ 7 kg



SPECIFICATIONS

POLISHING & ETCHING UNIT

Polishing duration	1 sec.-25 min.
Etching duration	1 sec.-5 min.
Automatic drive	0-90 V
Polishing desk	~ 160 x 150 mm
WxHxD	~ 216 x 320 x 280 mm
Weight	~ 4 kg



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