



SELFRAG
HIGH VOLTAGE PULSE
POWER FRAGMENTATION

PRODUCT SPECIFICATION

SELFRAG LAB • LABORATORY FRAGMENTER

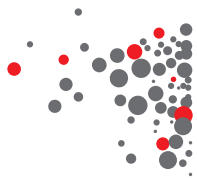


SELFRAG Lab is a laboratory batch equipment. It uses the high voltage pulse power technology of SELFRAG for the selective fragmentation of composite materials, mineralogical and geological samples in the kilogram range.

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SELFRAG LAB • TECHNICAL SPECIFICATIONS

Design

Self-contained, compact, semi-automated device, designed for installation on level, solid ground in interiors. Constructed in accordance with EU standards.

Outer dimensions

Max. L x W x H	237 x 87 x 206 cm
Clear ceiling height	250 cm
Total weight	2250 kg

Operating conditions

Working temperature	12 - 32 °C
Ambiant conditions when not operating	4 - 40 °C
Humidity max	75%

Required telecommunications infrastructure

For remote customer support a LAN connection is required (internet connection RJ45).

Control, user interface

PLC with graphic touch panel.

User information:

- Process status
- Diagnostic information

Settings

- Voltage (output impulse generator)	90 - 200 kV
- Pulse frequency	1 - 5 Hz
- Working electrode gap	10 - 40 mm

Required utilities

Gas loop:

- Dry Nitrogen (N ₂) Class 4.5	7 bar
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Electrical energy

- Connection (3-phase, Neutral, Ground - 3L-N-PE)	400V* +/- 10% / 50-60 Hz
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*Other net voltages can be supplied by using a transformer

Power consumption:

-Peak power consumption	max. 6 kW max. 7 kVA
- Current	max. 10 A
- Standby mode	max. 0.2 kW

Emissions

Sound pressure level (Leq)	
At stand-by	56dB(A)
During processing	79dB(A)
Sound exposure level (LEX)	70dB(A)

