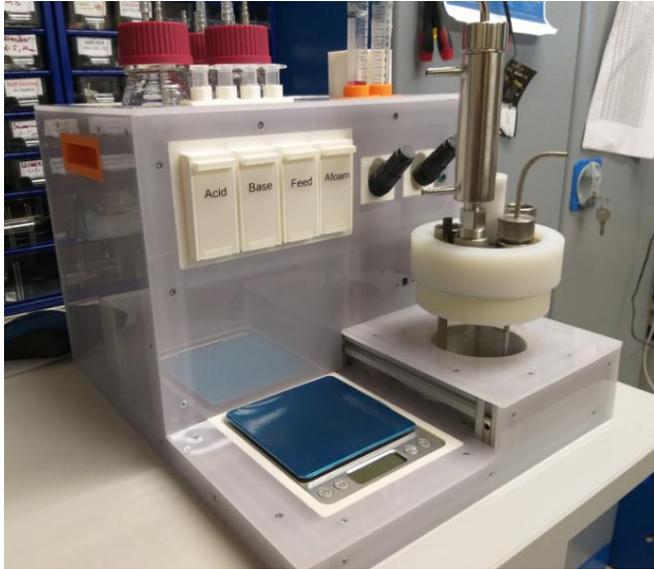




## jFermi is a fully featured low-cost smart fermentor 4All



- Batch Fermentation
- Fed-batch Fermentation
- Continuous Fermentation

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- Fully Web Based
  - Mobile Compatible
  - Plug & Play Sensors
  - Fully Customizable

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- Ethernet (LAN)
  - USB 2.0
  - Modbus RTU



Easily configurable and extendable with plug-and-play sensors.

Web based, mobile compatible Graphical User Interface.

Can be connected into blocks without limitations.

Supports M2M APIs for controlling the fermentation process.

- **EDUCATION**
- **BIOHACKING**
- **PROFESSIONAL USAGE**

As a unique feature, the device is user customizable in JavaScript language over its web interface.

With 50-450 mL vessels.

## FEATURES

- Batch/Fed-batch/Continuous fermentation
- Reporting
- Blockable
- **M2M interface**
  - XML
  - JSON
- Web Interface
- Mobile Compatible
- **Sensors**
  - pH (Analog /Digital)
  - Dissolved Oxygen (galvanic/polarographic/optical)
  - Temperature (Pt1000/NTC)
  - Off gas (CO<sub>2</sub>, O<sub>2</sub>)
- **Controls**
  - Feed/Acid/Base/Antifoam pumps (0.7-20 mL/min)
  - Air flow (MFC 0-500 mL/Air pump)
  - Heating/ Cooling (Peltier, 10-50 °C)
  - Stirring (0-2000 rpm)



## SPECIFICATION

### Power

- Supply voltage: 220 VAC
  - Internal voltage levels: 24 VDC, ±12 VDC, ±5 VDC, 3.3 VDC
  - P<sub>max</sub>: 200 W
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### Communication interface

- LAN 10/100 Mbps (RJ-45)
  - USB 2.0
  - Modbus RTU, UART/I<sup>2</sup>C/RS232/Analog
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### Control interface

- 1x main power switch
  - 3x LED indication of current states
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### Package contents

- jFermi (house, reactor)
  - Power cable (1 m)
  - Quick installation guide
  - Administration guide
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- jFermi house: 260 x 240 x 320 mm (w x h x d)
- jFermi reactor: 50-450 mL
- Weight: 6 kg