

Incubator

To complete my basic laboratory, I needed a climate-controlled incubator to grow my liquid cultures, agar dishes, grain jars and fruiting substrate blocks. I was able to borrow a reptile brood incubator from a friend. However, it being such an integral part of my lab – I decided to build my own. The «Mycubator» fits into the custom-built flight cases in the Pilzbüßli and features styrofoam isolation, an industrial 120 mm computer fan, an OLED display, control buttons, a waterproof metal cased temperature probe and 12 V, 22 W polyester heating foil. All electronics are controlled by an ESP32 microprocessor board and can be connected to via WiFi and Bluetooth. The PID algorithm ensures safe and stable temperature maintenance.