

Name	Type	Supplier	Notes	Link	Price	Quantity	Total
ESP32 DevKit V1, ESP32-WROOM-32	Processor	Farnell	Dual core 240 MHz, integrated Wi-Fi + Bluetooth. Replaces separate Wi-Fi module.	New link	8.75 €	1	8.75 €
Light Sensor, BH1750 (GY-302)	Sensor	Botnroll	I2C digital lux sensor, 0–65535 lux, 3.3–5V. Better than LDR — no conversion needed.	New link	1.87 €	1	1.87 €
CO2 Sensor, MQ-135	Sensor	Aquario	Detects CO2, NH3, alcohol, benzene, smoke. 10–1000 ppm. Analog + digital output. Compatible 5V ESP32. Needs 20s warm-up.	New link	6.09 €	1	6.09 €
Air Humidity and Temp Sensor, DHT22 (AM2302)	Sensor	Botnroll	Humidity 0–100% RH (±2%) + temperature -40–80°C (±0.5°C). Single-wire digital output. 3.3–5V.	New link	6.96 €	1	6.96 €
Scent Sprayer, Ultrasonic atomiser 5V	Actuator	Botnroll	108–110 kHz, 5V USB. Switched via relay. Use with essential oil diluted in water.	New link	14.90 €	1	14.90 €
Speaker + Amplifier, MAX98357A	Actuator	Aquario	I2S Class-D amp (2.7–5.5V), directly compatible with ESP32. No external DAC needed.	New link	5.12 €	1	5.12 €
Relay Module, 5V single-channel relay	Control	Ptrobotics	Controls power to the ultrasonic atomiser from ESP32 GPIO pin.	New link	4.60 €	1	4.60 €
Power Supply, 5V 2A USB adapter	Power	Any local shop	Powers ESP32 + peripherals. USB power bank also works for portability.	New link	7.26 €	1	7.26 €
Projector	Actuator	Aquario		New link	174.20 €	1	174.20 €
TOTAL (Electronic components)							229.75 €
Brass panel, 2000 X 1000 X 1,0 mm	Material	F. Marques da Silva S.A.	17 Kg each panel and 12,40 € per Kg	Link	210.8 €	3	632.40 €
Aluminium tube, 60 x 40 x 2,0 mm	Material	F. Marques da Silva S.A.	6 meters and 6,22 Kg each tube and 8,95 € per Kg	Link	55.68 €	2	111.36 €
SoundPET foam	Material	Artnovion	They could give us the unit we need FOR FREE because it's for researching purposes	Link			Free for prototype
Healthcare Fabrics_ MEDIFLEX Collection	Material	Monteiro Fabrics	No response yet	Link			
TOTAL (Materials for the structure)							743.76 €