

List of components GREEN.flow

No.	Component name	Usage	Dimension	Price [€]	Delivery [€]	Supplier
Technical System						
1	ESP32	Development Board		12,95	3,70 botnroll.com	https://www.botnroll.com/en/arduino-
2	400 TIE POINT INTERLOCKING SOLDERLESS BREADBOARD	Breadboard	400 Tie Points 8.2cm x 6.2cm	3,90		https://www.botnroll.com/en/accessories/676-400-tie-point-interlocking-solderless-breadboard-crystal.html
3	LEVEL SENSOR NO - NORMALLY OPEN	Water leak sensor		4,95		https://www.botnroll.com/en/biometrics/3292-level-sensor-no-normally-open.html
4	POWER ADAPTER	Power Supply for the water pump	100~240VAC TO 12V DC 3A 36W	8,40		https://www.botnroll.com/en/power-supply-ac-dc-12v/3369-power-adapter-100-240vac-to-12v-dc-3a-36w-ce-fcc-kc-ul-gs.html
5	Water Pump	Flowing of the water	5-12V	14,90		https://www.botnroll.com/en/dc-motor/4155-water-pump-5-12vdc.html
6	COLD WHITE LED STRIP LIGHT 300LEDS SMD2835 FLEXIBLE IP20 5M 12V	Aquarium Light, LED strip	300 LEDS, needs a ground to be glue on	5,85		https://www.botnroll.com/en/led-strips/4252-cold-white-led-strip-light-300leds-smd2835-flexible-ip20-5m-12v.html
7	2 CHANNEL 5V RELAY SHIELD MODULE	Switch module for water pump and LEDs	2 channels, 5V	5,80		https://www.botnroll.com/en/digital/2242-modulo-rele-2-canais-5v-compativel-com-arduino.html
8	Jumper Wires	Connection between the electrical components	10 M/M, 10 F/M, 15 cm length	4,00		https://www.botnroll.com/en/jumpers/855-jumper-wires-6-f-f-pack-of-10.html
Filtration						
9	NSF-C40L Aqua Nova	Sponge filter, protection of the pump		2,95	local provider	https://www.proaquarium.net/product-page/nsf-c40l-aqua-nova
10	Red Sea 225 micron Thin-Mesh aquarium filter bags	Filter bag, Filtration of the water floating from the algae tank to the aquarium		9,5	8.00	https://www.w2r.pt/product/red-sea-225-micron-thin-mesh-aquarium-filter-bags
Organic Components						

11	Fish			~1,50 /p. fish		www.proaquarium.net
12	Spirulina algae start culture		1ml	~8,00		https://algaeresearchsupply.com/products/spirulina-culture-arthrospira-platensis? pos=7& sid=4317a3140& ss=r&variant=13911607940
Housing						
13	Tank					Local providers
14	Pipes					
15	Tape/sealant					
<i>Optional</i>						
16	Smart Feeder	Automatic fish feeder		18,16		https://pt.aliexpress.com/item/4000800274063.html
Total (excl. Automatic fish feeder)				94,90		