

Expected Costs Prototype									
	Index	Description	Part Number	Manufacturer	Link	Quantity	Unit Price [€]	Total Price [€]	Price with VAT [€]
	1	Temp/Humi sensor	426-SEN0600	DFROBOT	SEN0600 DFRobot Mouser Portugal	1	22,40 €	22,40 €	27,55 €
	2	MAX3485	700-MAX3485EPA+	Analog Devices	MAX3485EPA+ Analog Devices / Maxim Integrated Mouser Portugal	1	8,80 €	8,80 €	10,83 €
Uni	3	MOSFET	511-IRF520	STMicroelectronics	IRF520 STMicroelectronics Mouser Portugal	1	1,07 €	1,07 €	1,32 €
Uni	4	Jumper cables (male-male)	932-MIKROE-2309	Mikroe	https://eu.mouser.com/ProductDetail/Mikroe/MIKROE-2309?qs=sGAEpiMZZMuGxYVy11yKKq3lbbM0hftxqF2vdNCk	2x10	3,31 €	6,62 €	6,62 €
Uni	5	12 V Ventilator fan (30 x 30 mm)	3010	Amazon	https://amzn.eu/d/9aGHy08	1	7,11 €	12,10 €	12,10 €
	6	Storage box with 3 drawers (60.5 x 26.8 x 37cm)	464167	hõma	https://www.homa.pt/modulo-com-3-gavetas-preto-464167.html?gad_source=1&gclid=Cj0KCQjwh_I_BhCzARIsANimeoF7uFxy92J8vsd0T6U9hSQSjix4oucZwsyyAwkPhSK2qcvPVHAEycaAnEVEALw_wcB	1	20,00 €	20,00 €	20,00 €
Uni	7	Screws (4 x 12 mm)	82231802	Leroy Merlin	https://www.leroymerlin.pt/produtos/40-parafusos-standers-plano-oval-pz-cromado-4x12-82231802.html	30	1,69 €	1,69 €	1,69 €
	8	Rectangular hinge 60 X 35 mm	15040326	Leroy Merlin	https://www.leroymerlin.pt/produtos/dobradica-chapa-fina-zincada-60x35-mm-15040326.html	4	1,49 €	5,96 €	5,96 €
	9	Super Cola UHU Control 3g	88547213	Leroy Merlin	https://www.leroymerlin.pt/produtos/super-cola-uhu-control-3g-88547213.html	1	3,39 €	3,39 €	3,39 €
Uni	10	White expanded PVC board (250 X 500 X 3 mm)	81902624	Leroy Merlin	https://www.leroymerlin.pt/produtos/placa-em-pvc-expandido-branco-250x500x3mm-81902624.html?srsltid=AfmBOopkcN9O9RZ1UJO73clQWmKfVExViZTP0RCVkg14NwF5eUAoD7XY1WY	1	5,79 €	5,79 €	5,79 €
	11	Locking for layers	/	3D printed by LeftLovers	https://www.aquario.pt/pt/product/creality-creality-3d-3301030037-material-para-impressao-em-wv100007317	2 x 0.021kg	14.8€/kg	0,62 €	0,62 €
	12	Mixing part	/	3D print/process out of metal by LeftLovers	https://www.aquario.pt/pt/product/creality-creality-3d-3301030037-material-para-impressao-em-wv100007317	2x 0.350kg	14.8€/kg	10,36 €	10,36 €
	13	Knives	/	3D print/process out of metal by LeftLovers	https://www.aquario.pt/pt/product/creality-creality-3d-3301030037-material-para-impressao-em-wv100007317	2x0.022kg	14.8€/kg	0,64 €	0,64 €
	14	Fixed connection bottom part	/	3D printed by LeftLovers	https://www.aquario.pt/pt/product/creality-creality-3d-3301030037-material-para-impressao-em-wv100007317	8	14.8€/kg	0,16 €	0,16 €
**This calculation shows that the prototype will be 7.03 euros over the budget. In reality, the costs will be reduced by using the eletrical components, as well as some materials like PVC boards from the university (stated "Uni"). This way the costs will stay in budget. The calculation of 3D printing is based on PETG-Filament. **						Total		99,60 €	107,03 €
						Budget left			(7,03) €