

BOM

smartWINERY beta prototype

Components	Link/supplier	Manufacturing process	Material	Price	QTY
Electrical components					
Motor (Walfrontehd38f 6bow-4)	https://www.amazon.de/-/en/reversible-torque-motor-total-metal/dp/B07LF6SDYS	Standard component		83,96 DKK	1
ESP8266	https://www.banggood.com/ds/GeeKreit-Wireless-NodeMcu-Lua-CH340G-V3-Based-ESP8266-WIFI-Internet-of-Things-IOT-Development-Module-p-1420166.html?utm_source=googleshopping&utm_medium=cpc_organic&gmcCountry=DK&utm_content=minha&utm_campaign=minha-dk-da-pc&currency=DKK&cur_warehouse=CN&createTmp=1&utm_source=googleshopping&utm_medium=cpc_union&utm_content=sandra&utm_campaign=sandra-ssc-dk-da-all-0302&ad_id=337427030565&gclid=CjwKCAjwzruGBhBAEiwAUqMR8CCBnMDqgbz6iB6OC83IFU9B3uyfZ2rTn7JUi5VvCtKVgsgPa1gPIhoC6m8QAvD_BwE	Standard component		25,34 DKK	1
IR Optocoupler (Im393 h2010)	https://www.banggood.com/LM393-DC-5V-Optoelectronic-Sensor-PIR-Sensor-Module-With-LED-Instruction-Slot-Single-Signal-Output-p-1352486.html?utm_source=googleshopping&utm_medium=cpc_organic&gmcCountry=DK&utm_content=minha&utm_campaign=minha-dk-en-pc&currency=DKK&cur_warehouse=CN&createTmp=1&utm_source=googleshopping&utm_medium=cpc_bgs&utm_content=sandra&utm_campaign=sandra-ssc-dk-en-all-1105-20bf-11sale&ad_id=477449337289&gclid=CjwKCAjwzruGBhBAEiwAUqMR8HomVexoxLbiyXINh5cNrLYtSHzJjc o-mIrwjuTh7fiAEXk0DG0wxoCCLoQAvD_BwE	Standard component		37,80 DKK	1
SSD1306 OLED screen (0.96")	https://www.amazon.com/IZOKEE-Display-SSD1306-Raspberry-Yellow-Blue-IIC/dp/B076PNP2VD/ref=sr_1_9?dchild=1&keywords=OLED+Arduino&qid=1624219208&sr=8-9	Standard component		87,80 DKK	1
6V DC peristaltic water pump	https://www.banggood.com/ds/DC-6V-Water-Pump-Peristaltic-Dosing-Head-Pump-DIY-Dosing-Pump-p-1505755.html?utm_source=googleshopping&utm_medium=cpc_organic&gmcCountry=DK&utm_content=minha&utm_campaign=minha-dk-da-pc&currency=DKK&cur_warehouse=CN&createTmp=1&ID=532941&utm_source=googleshopping&utm_medium=cpc_bgs&utm_content=sandra&utm_campaign=sandra-ssc-dk-da-all-0909-13anv&ad_id=381500364468&gclid=CjwKCAjwzruGBhBAEiwAUqMR8NrCnyyFT45-VW6xR-U0MdguyAD8p1c05QVY6eo7Xgguj1NO3_WKrRoC8ssQAvD_BwE	Standard component		165 DKK	1

DHT11 sensor (Temperature)	https://minielektro.dk/dht11-temperatur-og-fugtsensor.html?gclid=CjwKCAjwzruGBhBAEiwAUqMR8F8orkXlmm16PEBlurUekY2QLzMwURfMPDuHqqZwsi53UD44j9UQHBoCtNsQAvD_BwE	Standard component		21,50 DKK	1
Power supply (3-12Vdc / 27W / 2,25A)	https://www.elextra.dk/str%C3%B8mforsyninger/netadaptere-dc-ud/universel-netadapter-3-12vdc-27w-225a-8-stik/H32669	Standard component		169 DKK	1
Relays (srd-05vdc-sl-c)	Arduino kit	Standard component		---	2
DC-DC step-down converter (4-35V to 1,23-30V)	https://www.elextra.dk/p/GS/H22658?utm_source=GoogleAds&utm_medium=cpc&gclid=CjwKCAjw8uGBhBAEiwAayu_9eV0UMVIDEL6hikYR7Nf-V-yayC-dtvePYWSjlp83CjJyLhE5yMSBxoCqNAQAvD_BwE	Standard component		59	1
Jack sticks	Skylab electrical shop	Standard component		---	2
Wires	Arduino kit and Skylab electrical shop	Standard component		---	---
Non Electrical					
Glass carboy incl. lid	https://www.ikea.com/dk/da/p/vardagen-krukke-med-tappehane-80452639/	Assembly	Glass	99 DKK	1
Air lock	https://brewparts.dk/g%C3%A6rl%C3%A5s-til-g%C3%A6rspand?gclid=CjwKCAjw8uGBhBAEiwAayu_9bhn39e-2aRn0eVZzwzh2foeExfxWuEmM2m5T4QP0umHQSC1q_n4hoCYagQAvD_BwE	Assembly	Plastic	9 DKK	1
Stirring stick	dosLHAMAS	Injection molding/extrusion	Plastic/metal	40 DKK	1
Bayonet lock	dosLHAMAS	Injection molding	Plastic	---	1
Filter/Strainer (Nuova rade Strainer In-Line)	https://www.waveinn.com/maritim-fiskeri/nuova-rade-strainer-in-line-wit-h-large-mesh-filter-for-12-mm-hose/137796589/p?fbclid=IwAR0qvl8rVWtLFWS5otRXIGTH3A2OE29Z671ijeE4GGxBQ24oRitkeVP5Hqg	Standard component		62,49 DKK	1
Hoses	https://www.bauhaus.dk/pvc-slange-1-4-klar-pris-pr-meter	Assembly	PVC	29,95 DKK/meter	2 m
Craftomat tube couplings 6x11 mm	https://www.bauhaus.dk/craftomat-roduktion-saet-6x11-mm	Standard component	Metal	89,95 DKK	5

Electronics box (box and lid)	dosLHAMAS	Injection molding	Plastic	---	1
M3x10 machine screws	Skylab metal shop	Standard component	Metal	---	4
Zip ties	Skylab electrical shop	Standard component	Plastic	---	9
Case					
Top/spine	dosLHAMAS	Injection molding	Plastic	---	1
Lid	dosLHAMAS	Injection molding	Plastic	---	1
Walls	dosLHAMAS	Steam bending	Wood	---	1
Bottom	dosLHAMAS	Injection molding	Plastic	---	1
Carboy indentation	dosLHAMAS	Injection molding	Plastic	---	1
Filter house	dosLHAMAS	Injection molding	Plastic	---	1
Filter drawer	dosLHAMAS	Injection molding w/ wood front	Plastic/ wood	---	1
Ingredients					
JAZZ yeast	Donated by Sofie Saerens (Department Manager Wine & Fermented Beverages)	---	---	---	1
Sugar	Netto	---	---	9 DKK	0,5 kg
Fruit (apple) juice	Netto	---	---	60 DKK	5 L
Water	Tap water	---	---	---	---