Class	1MCT1
First Name:	JARNE
Name	DELARUE
Project Name :	Air Insight
Assembly Revision :	
Approval Date :	
Part Count :	8
Total Cost :	€174

Part #	Part Name	Description	Revision	Qty	Supplier	also available from	Units	Unit Cost	Max Cost	Real Cost
1	5 inch TFT-LCD Display 800*480	Dashboard Display	1	1	[1]"5 inch TFT-LCD Display 800*480 pixels met Touchscreen - Raspberry Pi Compatible." https://www.tinytronics.nl/shop/nl/displays/tft/5-inch-lcd-display-	[1]"HDMI 5 Inch 800x480 touch TFT Raspberry." https://www.hobbyelectronica.nl/product/hdmi-5-inch-800x480-	1	€ 32,00	€ 32,00	
2	MH-Z19B CO2 sensor	CO2 sensor	1	1	[1]"Bestel CO2 Koolstofdioxide sensor 0-5000 ppm NDIR MH-Z19B voor € 19,80," DomoticX. https://webshop.domoticx.nl/index.php?route=product/product&product_id=2385	[1]"Winsen MH-Z19B CO2 Sensor met Kabel." https://www.tinytronics.nl/shop/nl/sensoren/lucht/gas/wi	1	€ 21,00	€ 21,00	
3	PMS5003 PM sensor	Particulate matter sensor	1	1	PMS5003 Fijnstofsensor met kabel - Opencircuit	[1]"PM2.5 Air Quality Sensor & Breadboard Adapter Kit - PMS5003." https://www.kiwi-electronics.nl/nl/pm2-5-air-	1	€ 27,00	€ 27,00	
4	BOSH BME 680 with breakout board	Temperature, pressure, humidity and VOC	1	1	[1]"BME680 - Temperature, Humidity, Pressure and Gas Sensor." https://www.makerfabs.com/bme680-temperature-humidity-pressure-and-gas-sensor.html	[1]"3660 | Adafruit BME680 Sensor, 5V." Distrelec Belgium. https://www.distrelec.be/nl/adafruit-bme680-sensor-	1	€ 15,90	€ 15,90	
5	Raspberry Pi 4	Controlls the entire system	1	1	[1]"Raspberry Pi 4 Model B– The Pi Hut." https://thepihut.com/products/raspberry-pi-4-model-b?variant=20064052674622&src=raspberrypi	[1]"Raspberry Pi 4 Model B - 4GB." https://www.kiwi-electronics.nl/nl/raspberry-pi-4-model-b-4gb-4268 (accessed	1	€ 43,85	€ 43,85	
6	5V USB-C PSU	Powers the entire system	1	1	[1]"5A USB-C Voedingsadapter voor Raspberry Pi 4." https://www.sossolutions.nl/5a-usb-c-voedingsadapter-voor-raspberry-pi (accessed Mar. 08, 2022).	[1]"USB-C Power Adapter 4A, 106060004 - Antratek Electronics." https://www.antratek.be/usb-c-power-	1	€ 16,95	€ 16,95	
7	Level shifter	shifts the 3.3V pwm to 5V pwm for the fan	1	1	On hand	4-channel I2C-safe Bi-directional Logic Level Converter [BSS138] : ID 757 : $3.95 : Adafruit Industries,	1	€ 4,00	€ 4,00	
8	5V dc PWM Fan	Represents in house ventilation	1	1	"DC 5V 0.2A Mini Computer Case Cooler Cooling Fan with Screws Parts for Raspberry Pi 3B... | bol.com." https://www.bol.com/be/nl/p/dc-5v-0-2a-mini-computer-case-	reichelt elektronik G. & C. K. I. Team (webmaster@reichelt.de). "NO NF-A4X10 5V P - NOCTUA NF-A4x10 5 V PWM-	1	$ 12,95	€ 12,95	
	Total			**8**					**€ 173,65**	

Revision History

Whenever there are things that change in the original BOM you note this down here!

Project Name :

Revision	Revision Summary	Approval Date
1	INITIAL BOM	8-maart-2022
2	UPDATED BOM	17-jun.-22