

# CASE STUDY – JAVA HOUSE

The works consisted of mechanical ventilation at the kitchen area. On ground, the biggest challenge was doing the ducting from the kitchen area to the top roof of the mall. This necessitated for a lot of professionalism in the design, duct sizing, routing installation, among others. Additionally, duct routing was a challenge, as the mall structure didn't factor such modifications. To overcome this the ducts had to be done on top of each other, in a bid to maximize on the available space. Further, due to the huge distance between the hood and the fan, multiple joints were inevitable. As such, there was a dire need to ensure the joints were airtight to avoid the shortcomings of air leakages. The long duct routing was characterized by numerous bends and transformational pieces ultimately leading to huge pressure drops, which was to be compensated by the fan's specifications. In order to attain the desired air flow at the hood filters, precise extract hood fan had to be sourced. In this case, a customized fan had to be ordered from the manufacturer.



Ducting



Extract Fans



Axial Fans



Split Units

## Client

Java House

## Project Date

Apr 2019 – Nov 2019

## Scope of work

- ▶ Installation of kitchen extract system
- ▶ Installation of fresh air system in the kitchen area
- ▶ Installation of washroom & Dish-wash area extract system
- ▶ Installation of split air conditioning units.



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