Info : This doc explain the different parameters involved in the excel sheets that were exported from OpenFOAM

**Parameters present in every simulation**

**Front and back of the train**

* Pressure file : Front of the train is closed
* Pressure file : Back of the train is opened – air goes out
* Velocity file : front is opened – air goes inside of the train
* Velocity file : back is closed

**Inhaling and Exhaling from people**

* Seats 4,5,7,9,12,13,14,16,19 and 20 **inhale** – pressure file opened
* Seats 1,2,3,6,8,10,11,15,17,18 **exhale –** velocity file opened

**Variation of parameters for the simulation**

For ClosedValves file

All valves are closed

For OpenValves file:

All valves are open : air flow goes from bottom to top : air enter at the bottom valves and goes out at the top valves

For FrontAirFlow\_v0 file

All valves are open : air flow goes from bottom to top : air enter at the bottom valves and goes out at the top valves

In the "U” file : front air flow speed = 0 m/s