



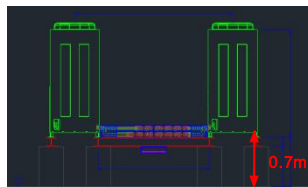
CFD Analysis Report for Lotte PJT in Russia

SAC Engineering Division

LG
Electronics



Top view

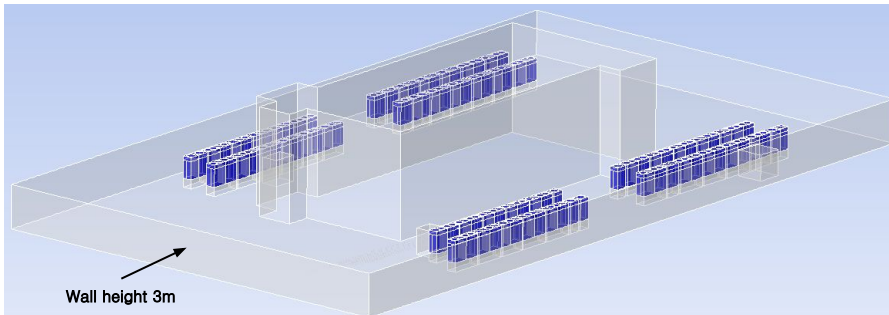


Side view

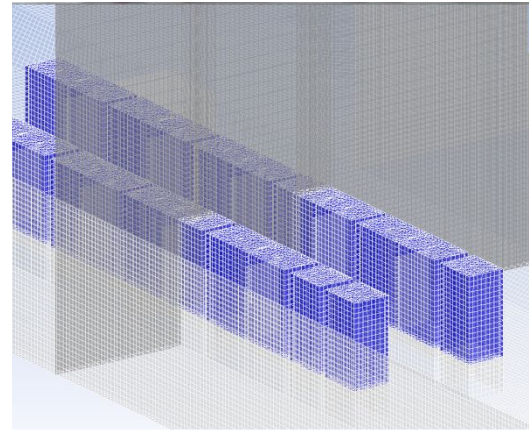


wall height 3m





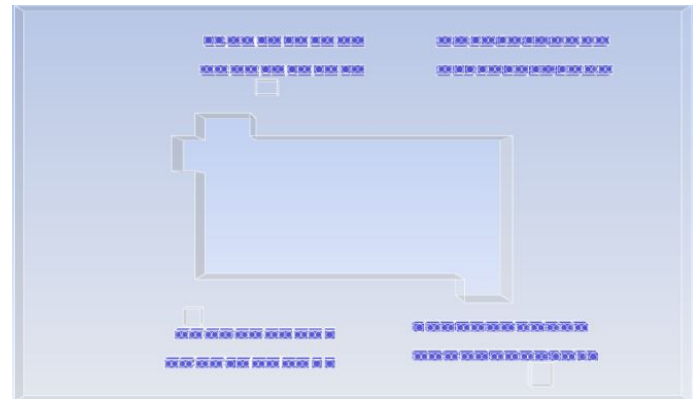
Iso view



Mesh

CFD Analysis Condition

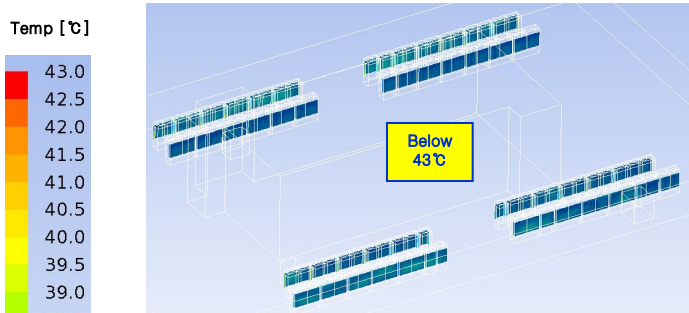
- ✓ Product : Multi III
- ✓ Operation ratio : 100%
- ✓ Air temp. : 33°C
- ✓ Roof wall height : 3m
- ✓ Support height : 0.7m
- ✓ CFD Analysis Program : FLUENT 13.0.0, GAMBIT 2.4.6
- ✓ Viscous model : k-e standard model
- ✓ Mesh : 6,791,555 hexahedral mesh



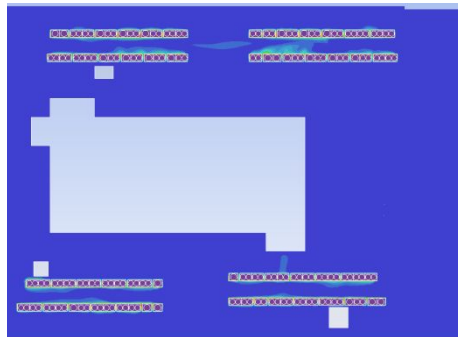
Top view

CFD Result

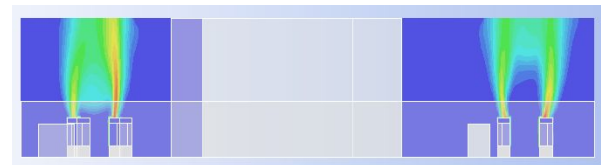
It is shown that avg. Temp. of heat exchanger is distributed from 34°C to 49°C It seems that normal operation of AC product could be possible in these conditions.



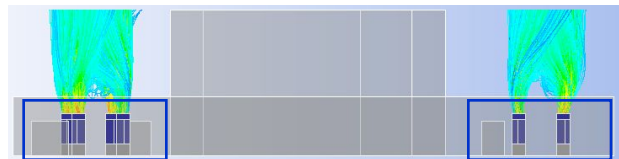
Temp. contour on heat exchanger



Temp. contour on surface (h=1.5m)



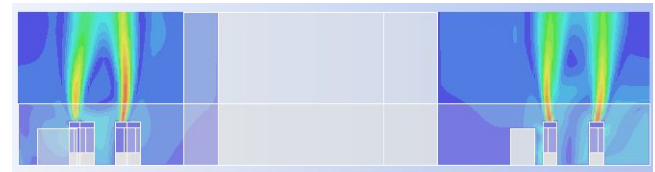
Temp. contour on surface



No recirculation

Pattern of discharge flow

No recirculation



Velocity contour on surface

