

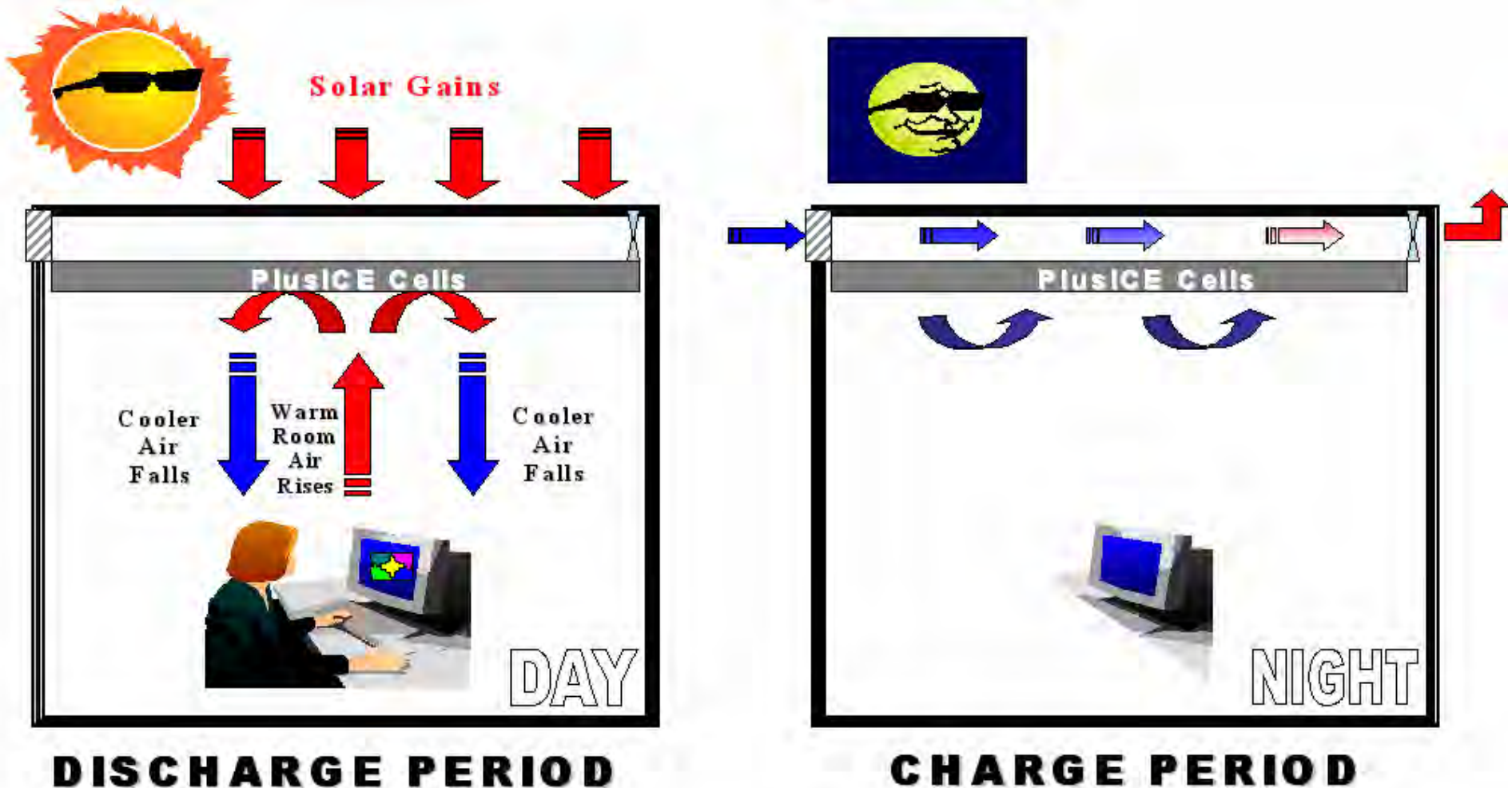


# *Educational Facility, Passive Cooling Application*

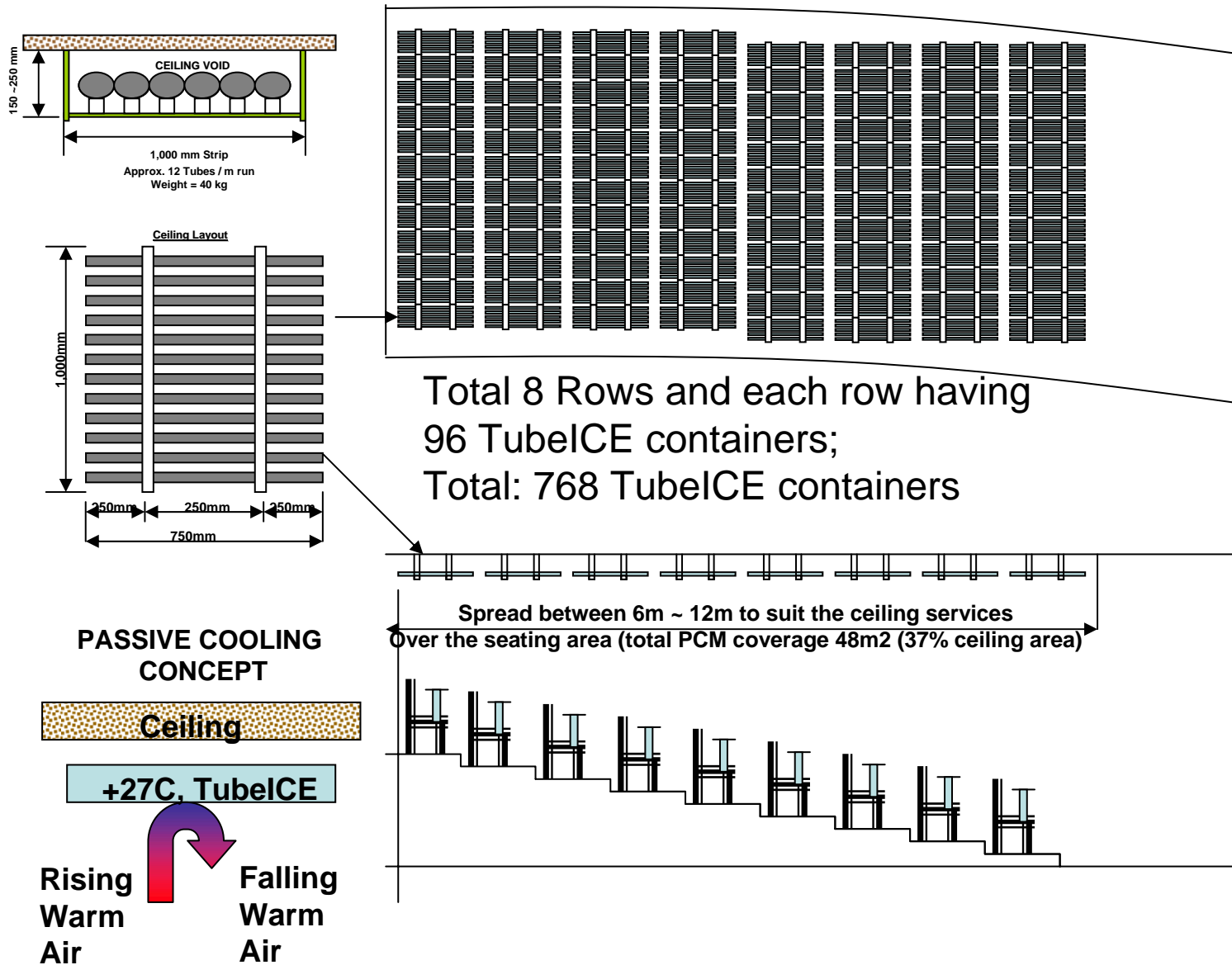


# Passive Cooling Concept

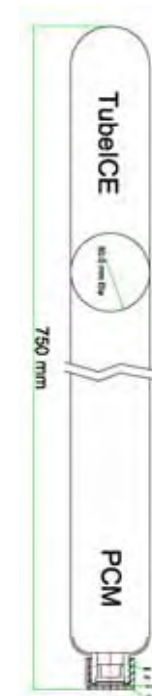
Passive cooling relies on a temperature swing between night and day. Cooler night-time air charges the PCM storing energy which is later released as required during warmer day time temperatures. The heat transfer between the cell and the surrounding area provides a Passive Cooling facility and this charging / discharging process is repeated on a daily basis to provide cooling without a mechanical cooling system.



# LECTURE THEATER PASSIVE COOLING CELL INSTALLATION



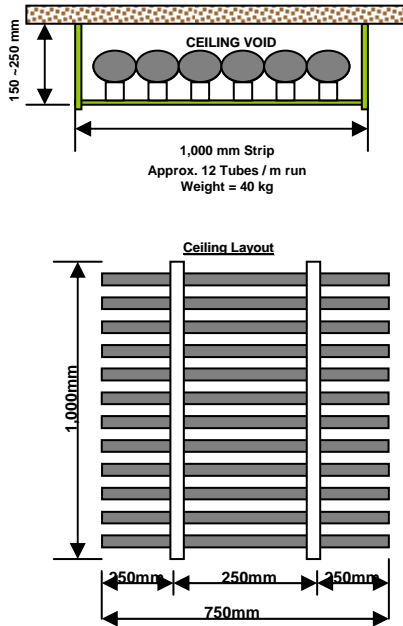
Tube ICE



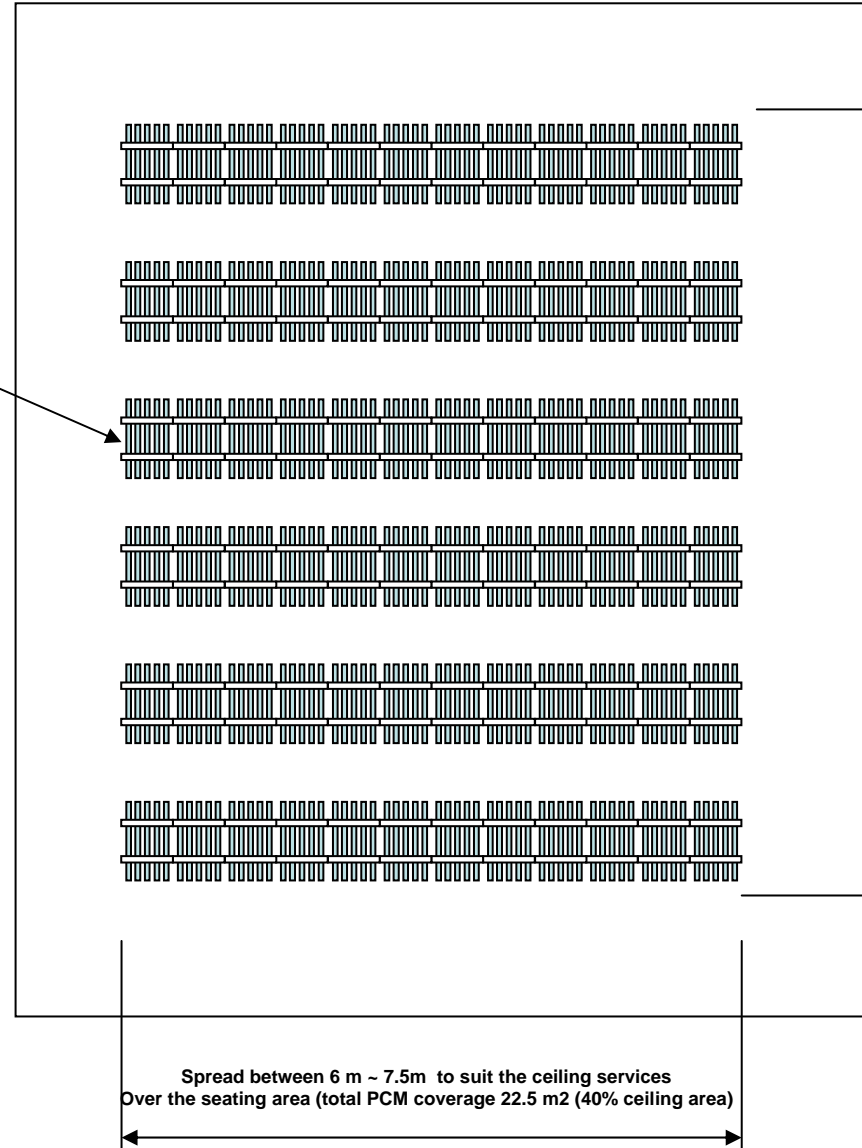
# Lecture Theatre



# CLASSROOM PASSIVE COOLING CELL INSTALLATION



Total 6 Rows and  
each row having  
60 TubeICE  
containers;  
Total: 360 TubeICE  
containers

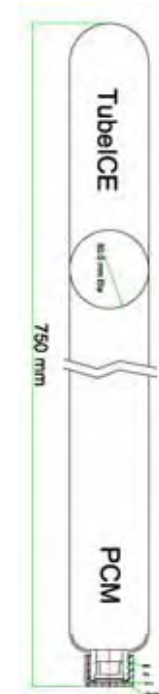


Spread between 6 m ~ 7.5m to suit the ceiling services  
Over the seating area (total PCM coverage 22.5 m<sup>2</sup> (40% ceiling area))

Spread between 4.5 m ~ 9m to suit the ceiling services  
Over the seating area (total PCM coverage 22.5 m<sup>2</sup> (40% ceiling area))



Tube ICE



# Classroom

