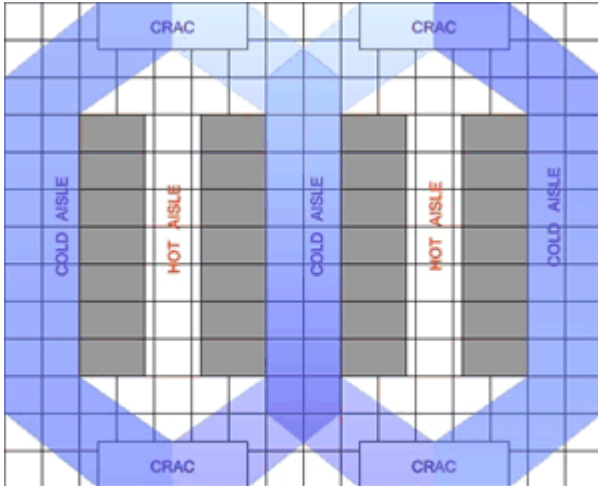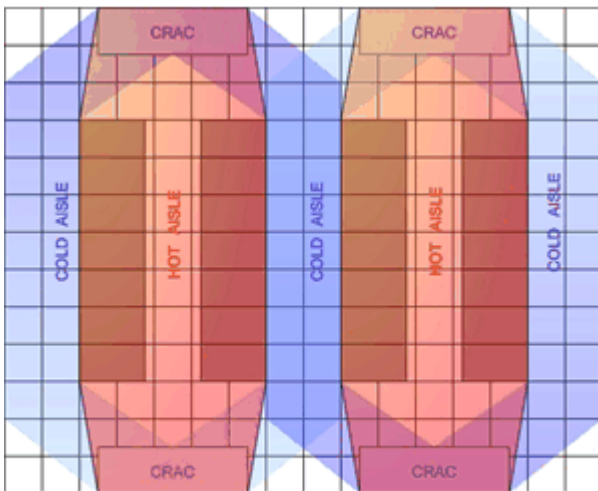**Use Plenaform to Create Dedicated Hot and Cold Aisles**

Dedicated cold aisle

Dedicated hot aisle
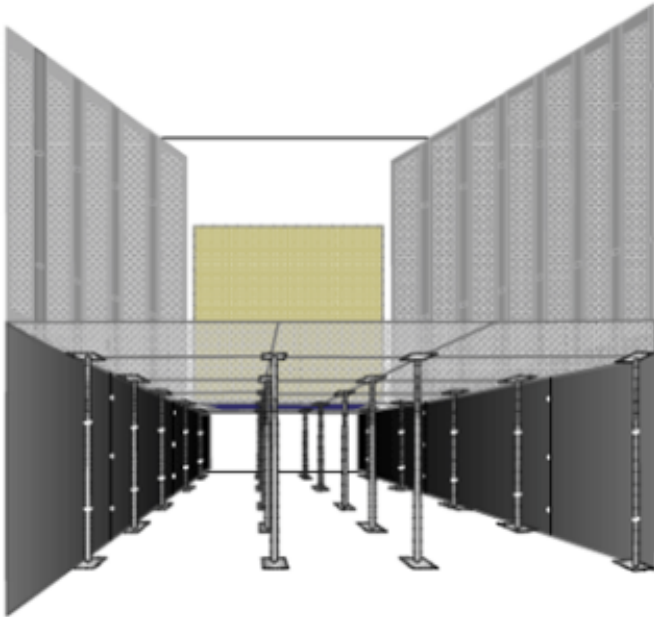
Creating dedicated "hot and cold aisles" or "rack and row" data center equipment placement configurations with **PLENAFORM** increases the static pressure delivering a higher volume of cooling through perforated tiles and at a further distance from the CRAC units. The Venturi effect is attained, whereby more air pressure rises in the dedicated cold aisles. With the deployment of **PLENAFORM**, a "VUF" vertical under floor partitioning system, air flow distribution may be directed more efficiently from the CRAC units for maximum equipment air cooling or air blocking requirements in a data center raised floor plenum space.

Installing **PLENAFORM** to direct air flow from the "source of the air" plenum level, a data center manager can better achieve a thermally tuned data center. Integrating **PLENAFORM** into the data center design helps to mitigate thermally associated risk to equipment hardware.

The key word here is high density computing and **PLENAFORM** helps to solve thermal imbalances in your data center environment simply and inexpensively!

Use Plenaform to Create Dedicated Hot and Cold Aisles

Approximate savings from turning off 5 CRAC units for one year:
7-10K to operate or 7K x 5 units = $ 35,000.00
12-15K to maintain or 12K x 5 units = $ 60,000.00
Approximate net energy savings for one year = $ 95.000.00
Approximate cost to partition a 60 ft. run = $ 2,528.00
One Year ROI = $ 92,472.00