

# CASE STUDY 5

A Customised Air  
Handling solution  
for DUAL cooling  
modes

# 01 The Objective



**SRMT Kakinada** wanted a typical tailor made temperature control solution in which a constant temperature of 22-26° C to be maintained in the mall.

The Management wanted a solution which could cater dual cooling modes. The Units must operate at full loads in the weekdays while during weekends, half loads are preferable.

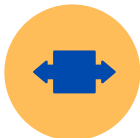
Moreover, Space restrictions make it a much more challenging task to cater

## "DUAL COOLING LOADS AT MINIMAL INITIAL COST"

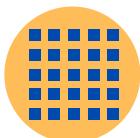
### > Client Requirements



Temperature Required : 22-26 °C



Dual Circuting Modes - Chilled Water Circuit and DX Circuit

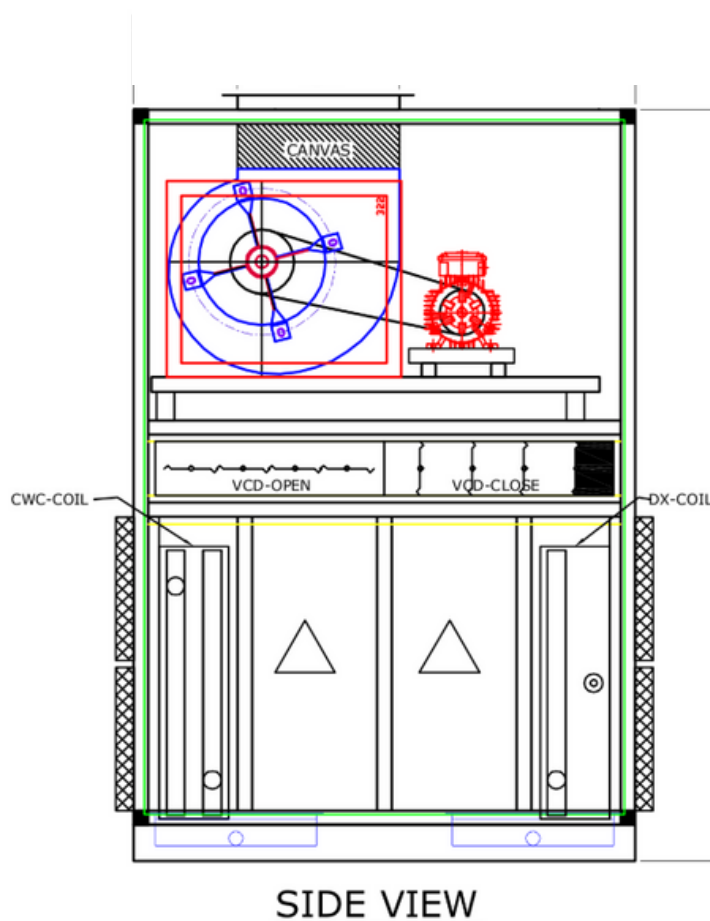


The units must be made within the existing space dimensions only ( Space Restrictions )

# Our Solution 02

**We proposed Air handling Units** with dual circuiting as per the client's requirements. The typical challenge faced by the client due to dual loads i.e he wants to use heavy Chiller during weekdays (at full load conditions) powering the Chilled Water Coil while during partial loads, he wants to use individual DX units (weekdays) powering the specific units in operation. To solve this issue, We offered him Vertical Air Handling Units with Dual Coil Circuiting - CW and DX with automated selector switch. The Client can choose CW or DX as per his need.

Moreover, The Unit is made compact and is in vertical orientation to save space although the ease of accessibility of filters and coils for regular maintenance is not at all compromised.



**Model No : SAGM-070-DC-CWC-DX-V1**



**SAGM Vertical  
Orientation AHU**