HOW TO SET OUTDOOR AIR TO OCCUPANCY SCHEDULE IN A VAV UNIT

Edit Air handling unit -

Air handling unit Data

General | Outdoor Air System

Recirculation
- On
- Outdoor air flow rate (m3/s): Autosize
- Minimum limit type: 2-Fixed minimum

Economiser (Free Cooling)
- Economiser control type: 1-No economizer

Outdoor Air Schedules
- Apply minimum outdoor air schedule
- Apply minimum outdoor air schedule
- Minimum outdoor air schedule: Office_OpenOff_Occ
- Apply minimum fraction of outdoor air schedule
- Apply maximum fraction of outdoor air schedule

Autosize value will take on values in ZONE tab, and stays fixed for sim

The OA rate above (autosized) is multiplied by this schedule between 0-1

Edit VAV no reheat ADU -

VAV no reheat ADU Data

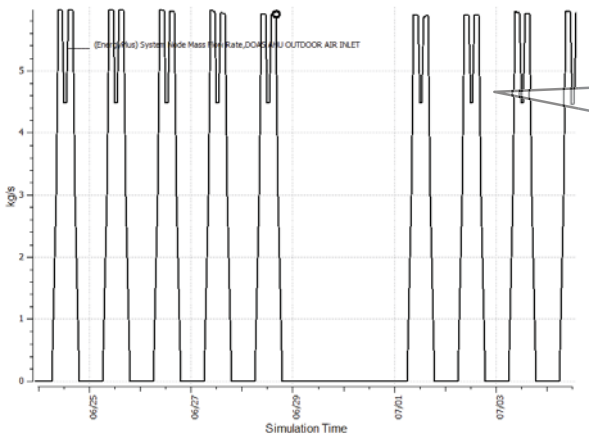
Air Terminal: VAV No Reheat | Target

General
- Name: TestZone:Test1402M2GFA Single
- Maximum air flow rate (m3/s): Autosize
- Zone minimum air flow rate method: 1-Constant
- Constant minimum air flow fraction (turndown ratio): 0.300

Outdoor Air
- Control on outdoor air flow

Operation
- Availability schedule: On

Turn this on in the air terminal



The OA is properly reported at 6.03 kg/s peak, 0 during off hours.

Edit HVAC Zone -

HVAC Zone Data

General | Target

- Name: TestZone:Test1402M2GFA
- Thermostat Schedules
  - Thermostat heating setpoint schedule: Heating set point schedule
  - Thermostat cooling setpoint schedule: Cooling set point schedule
- Comfort PMV Setpoint Schedules
  - Heating PMV setpoint schedule: Heating Fanger comfort setpoint:
  - Cooling PMV setpoint schedule: Cooling Fanger comfort setpoint:
- Humidistat Control
  - Humidistat control
- CO2 and Contaminant Control
  - Contaminant control
- Cooling Sizing
  - Cooling design supply air temperature input method: 1-Supply air temperature
  - Cooling design supply air temperature (°C): 14.000
  - Cooling design supply air humidity ratio: 0.009
  - Cooling minimum air flow fraction (turndown ratio): 0.000
  - Zone cooling sizing factor: 1.150
  - Cooling design air flow method: 1-Design day
- Heating Sizing
  - Heating design supply air temperature input meth...: 1-Supply air temperature
  - Heating design supply air temperature (°C): 50.000
  - Heating design supply air humidity ratio: 0.004
  - Zone heating sizing factor: 1.250
  - Heating design air flow method: 1-Design day
- Outside Air Sizing
  - Outside air method: 3-Flow/Area
  - Outside air flow per zone floor area (m3/s-m2): 0.01250

Model data <admin>

THIS is where the outdoor air rate is set. Each zone in the group will contribute to the total OA rate . In this case, there is one zone only, with area = 402 m2. Therefore, total OA is 5.025 m3/s = 4.188 kg/s