HVACTemplate:Zone:BaseBoardHeat
*HVACTemplate:Zone:*PTAC
*HVACTemplate:Zone:*PTHP
HVACTemplate:System:DedicatedOutdoorAir

Introduction

Try 2 places: Valencia (mild weather), Burgos (Cold weather)
Try: high and low internal gains.

GOALS:
- See Automatic Sizing of components. Modifying sizing.
- HVAC Sizing Summary , Component Sizing Summary
- See SVG connectivity
- Output:Meter, Meter:Custom

BASEBOARD-HotWater
(X) sizing factor

PTAC-PTHP
See the effect of:
(X) sizing, zone sizing factor on:
* energy consumption
* volume flow rate

(X) PTAC-heating electric
(X) PTAC-heating gas
(X) PTAC-heating hot water
check consumptions

(X) PTHP

(X) Change the supply cooling temperature from 14C to 16C:
* energy consumption
* volume flow rate

Include a DOA with:
(X) DX Cooling COP
(X) Cooling: TwoSpeedDX and Heating:Electric

(X) Using a Heat recovery type:
* sensible
* enthalpy

(X) Dehumidifier: (play with the cooling coil type)
(X) Humidifier

PTAC+BASEBOARD-HotWater

RATED CONDITIONS

COOLING

Rated conditions are air entering the cooling coil at the maximum supply air flow rate at 26.7°C drybulb/19.4°C wetbulb with air entering the outdoor condenser coil at 35°C drybulb.
Capacity should be the “gross”, i.e., the effect of supply air fan heat is not accounted for.

HEATING

Rated conditions are air entering the heat pump heating coil at the heating supply air flow rate at 21.11°C drybulb/15.55°C wetbulb with air entering the outdoor coil at 8.33°C drybulb/6.11C wetbulb.
Capacity should be the “gross”, i.e., the effect of supply air fan heat is not accounted for