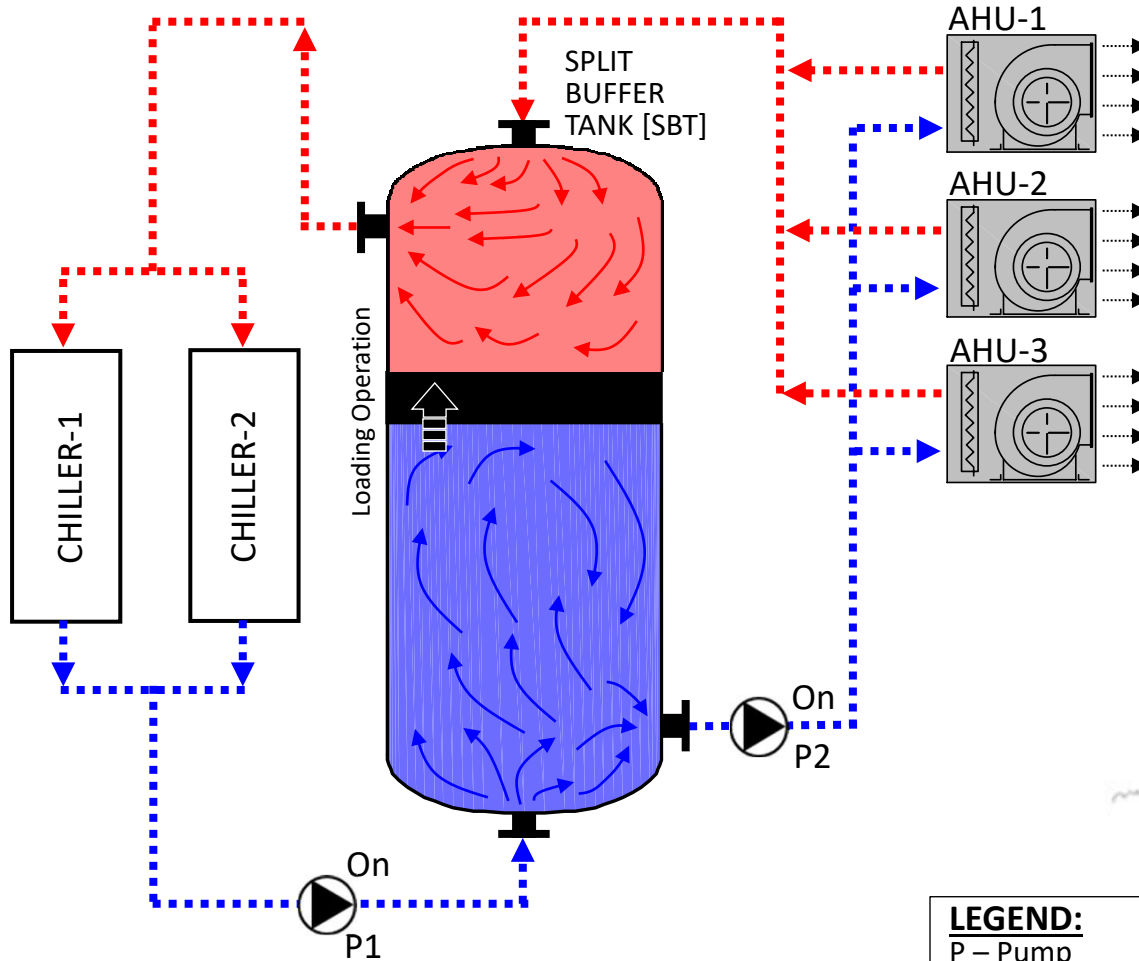


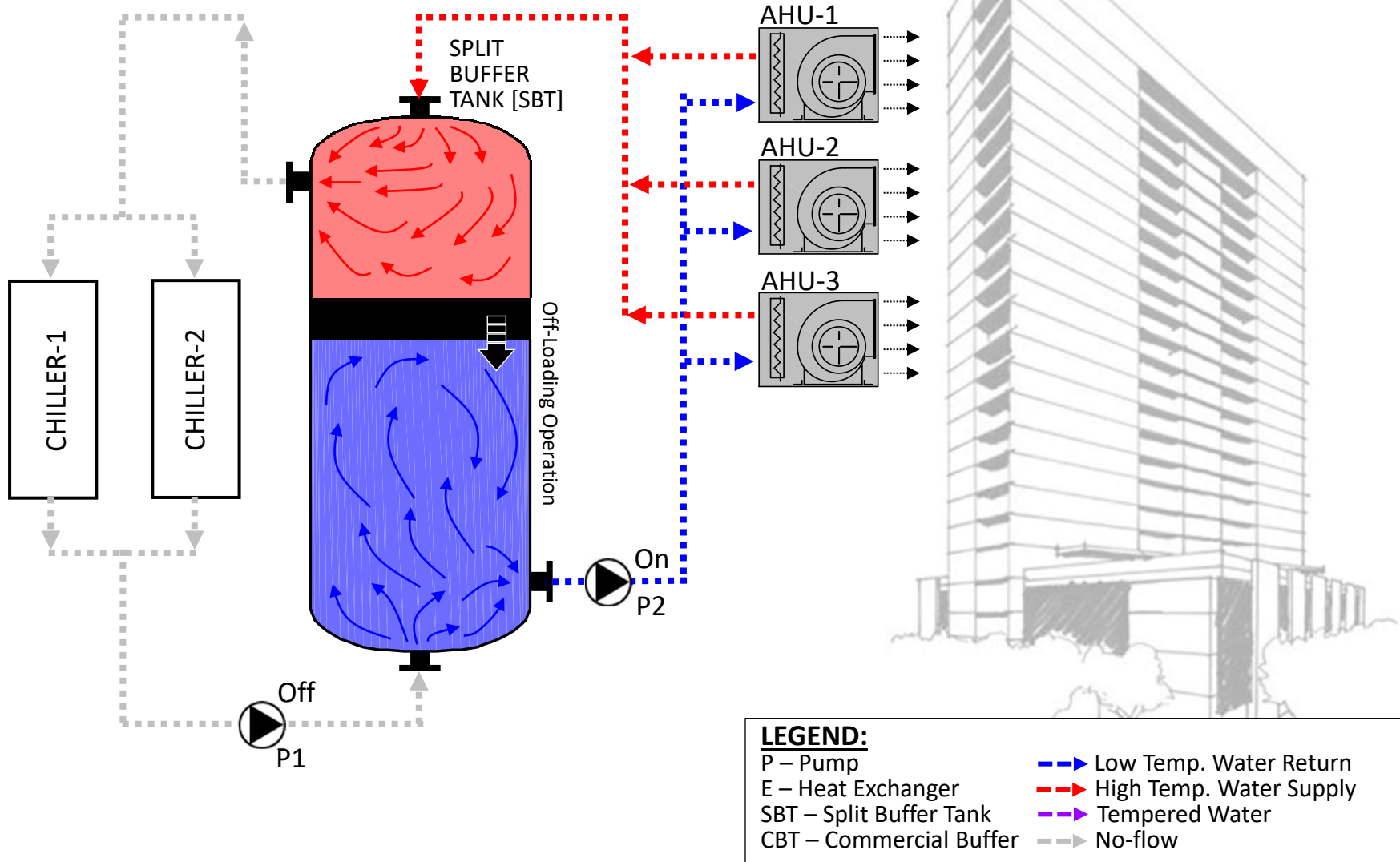
**CHILLED WATER SBT-STORAGE SYSTEM
OFF-PEAK COOLING [LOW ELECTRICITY RATE]**



LEGEND:

P – Pump	—▶ Low Temp. Water Return
E – Heat Exchanger	—▶ High Temp. Water Supply
SBT – Split Buffer Tank	—▶ Tempered Water
CBT – Commercial Buffer	—▶ No-flow

CHILLED WATER SBT-STORAGE SYSTEM
PEAK COOLING [HIGH ELECTRICITY RATE]





CHILLED WATER SBT-STORAGE SYSTEM ADVANTAGE

- Chilled Water SBT-Storage System for off-peak cooling is a proven, simple and practical solution to rising energy costs. SBT-storage gets charged during the Off-peak time periods where electricity rates are as low as 50% of peak rate cost.
- Chilled Water SBT-Storage System smooths peak/off-peak chiller(s) operation improving system energy performance. By reducing unnecessary water recirculation through the evaporator, something very common in conventional storage systems, chillers on/off and overrun operation can be mitigated.
- SBT-Storage System installation for facility expansion is a reliable and economical decision since cooling capacity can be increase by 30-50% without significant CAPEX investment on new chiller(s) addition. In this case, SBT-storage will only serve average loads while existing plant can support peak demands.
- In locations with temperature oscillations between -7°C to 12°C SBT-Storage Systems can provide significant opportunities for energy savings on air-conditioning operation through Free Cooling.
- Data centers SBT/Zero-Mixing operation facilitates raising supply and return temperatures to generate free cooling opportunities without compromising computer room functionality. ASHRAE (Class 1 & 2) still well within the recommended data centre upper operating temperature of 27°C (80.6°F).