

# Load Profile type

They are three types of Load Profile – The no permanent Load Profile – The permanent Load Profile with a low base Loading – The permanent Load Profile with a high base Loading.

1.No permanent Load profiles are associated to Office buildings, theaters, Churches, Super Market etc...i.e buildings which are not occupied 24 hours a day. While buildings are not occupied, Chillers are running to store the cooling energy. When buildings are occupied, the cooling energy required is provided by reduced Chillers capacity and by the cooling energy released from the storage.

2.Permanent Load profile with a low base loading are associated to the same kind of buildings than § 1. However, these buildings have some equipments or specificities which require a cooling energy 24 hours a day. When the corresponding load profile is low, Chillers can be used to charge the storage and simultaneously to provide the low base loading. Obviously, Chillrs efficiency is reduced but the investment is lower.

3. The permanent Load profile with a high base loading are associated to Hotels, Hospitals, Mails, Apartment buildings etc... The corresponding permanent base loading are generally covered with traditional chillers plant while the complement load profile is treated as a No permanent Load profile.

