

The indirect evaporative cooling lowers the temperature of primary air via heat exchanger arrangement, in which secondary air stream is cooled by water and which in turn cools the primary air stream. In this process, the cooled air never comes in direct contact with water or environment. Typical indirect evaporative cooling system, delivering cold air to parking areas is shown in fig. 502.19(1).

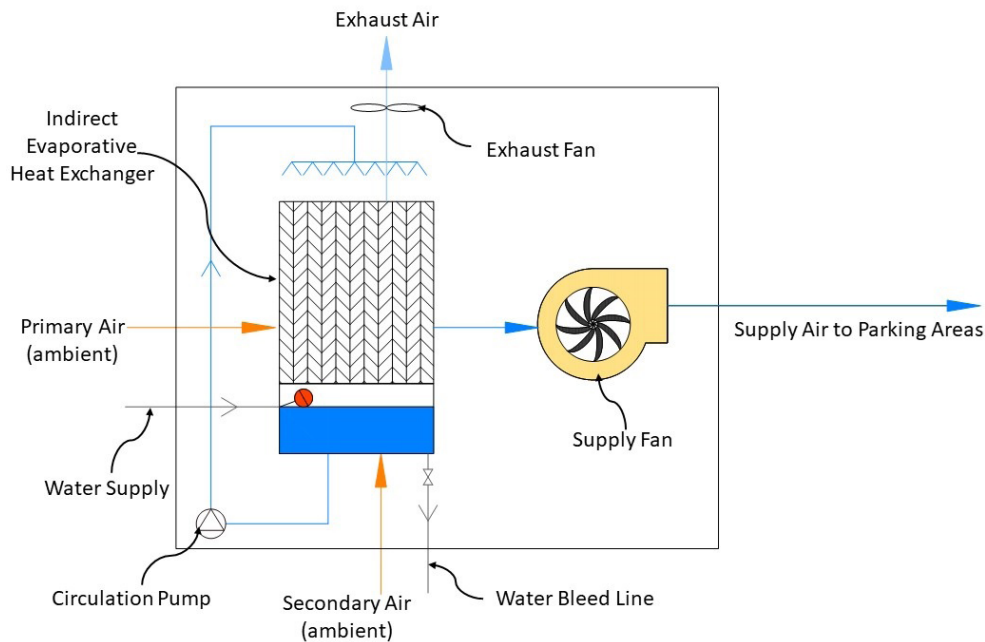


Fig. 502.19(1): Indirect Evaporative Cooling System

The changes in temperature and relative humidity of the air in a typical indirect evaporative cooling system, is shown in fig. 502.19(2).

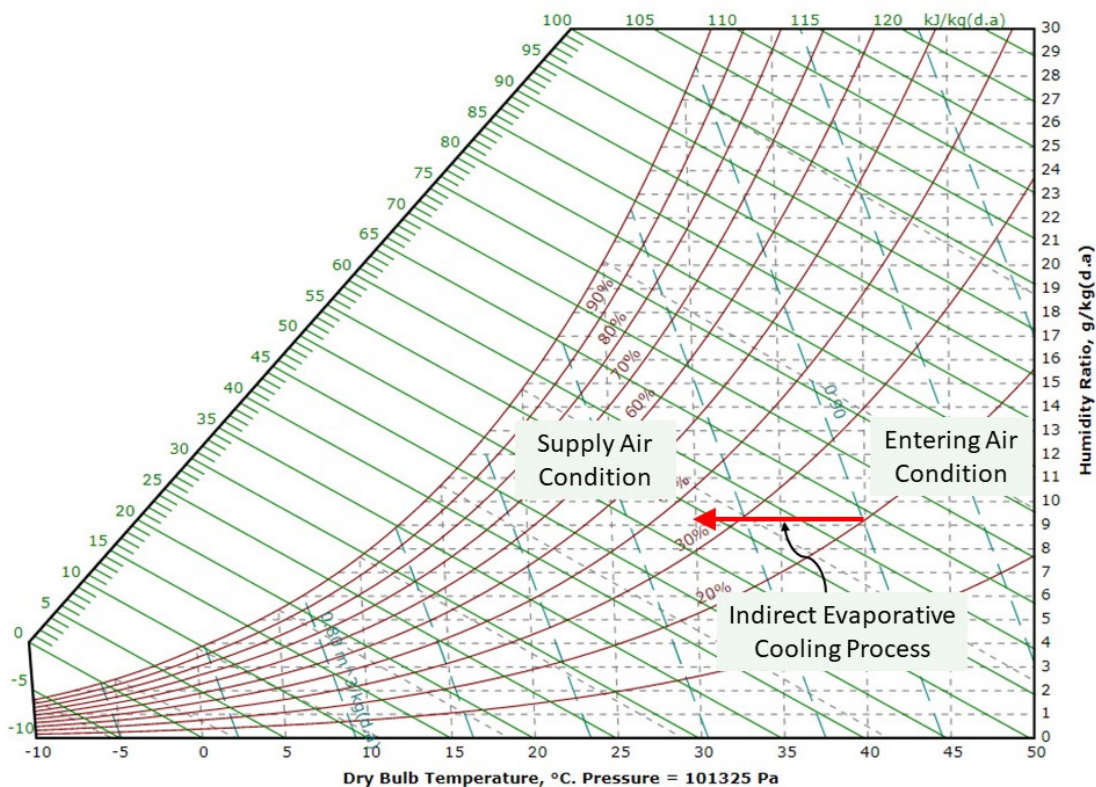


Fig. 502.19(2): Psychrometric Chart showing the Outside Air Condition and Supply Air from Indirect Unit