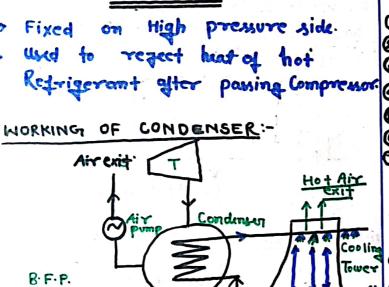
DIPLOMA STUDENTS IN TECHNICAL STUDIO BY BHANU PRATAP SINGH



CONDENSER

pond/Well

Basic elements of Condensers:

(1) Condensate extraction pump. (CEP).

(2) Hot well.

(3) Hot well.

(4) Cooling water pump. (CMP)

(5) Gooling water pump. (CMP)

(6) Boiler feed pump. (BFP)

(7) Air extraction pump.

(8) Condenser.

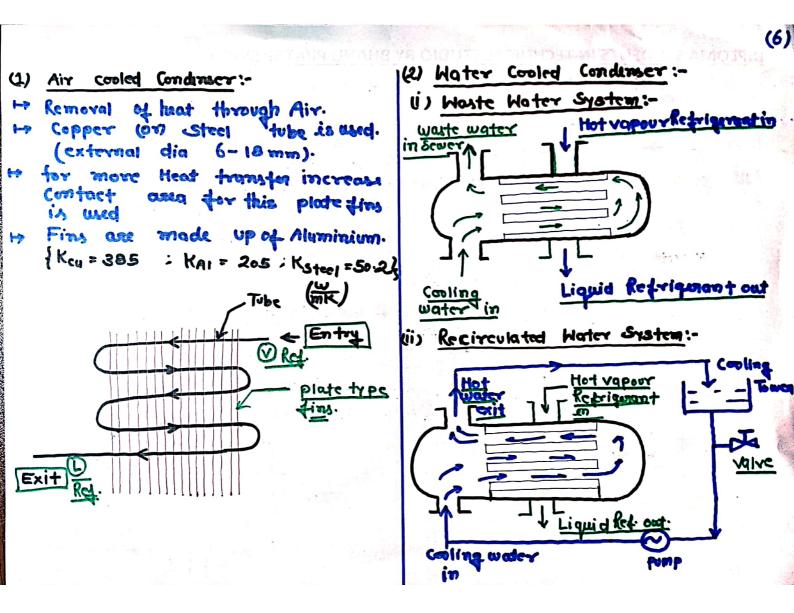
(9) Water cooled Condenser.

(1) Air Cooled Condenser.

(2) Water cooled Condenser.

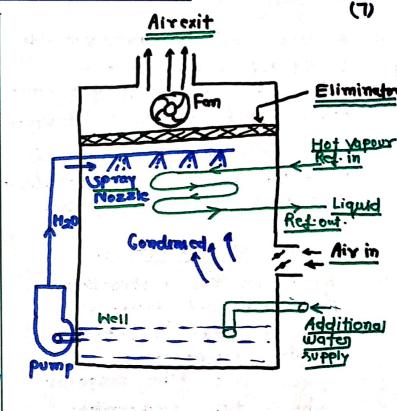
(3) Evaporative Condenser.

(4) Cold totwar Comp.



DIPLOMA STUDENTS IN TECHNICAL STUDIO BY BHANU PRATAP SINGH

- (3) Evaporative Condenser:
- Condensed medium to convert hot vapour Refrigerant in liquid Refrigerant
- Condenser is a mixed form of Condenser.
- Maximum cooling occurs viq exaporation but still air absorbs some sensible heat from water.
- to because Litt. of evaporation takes from Refrigurant So vapour Refrigurant Condensed and Conventy into Liquid form.
- He Because some water is evaporated and exit with air hunce extra water supply is required.



EVAPORATORS

- +> Attacked on low pressure side
- Liquid Ref. enters into the evaporator where it gets start boiling and convented into vapor
- to absorb that from surroundings So that they can gets cooled.

Classification of evaporators:

- (1) Based on the Construction:-
- (i) Base tube coil evaporator.
- (ii) Finned tube evaporator.
- (iii) pide evaporator.
- (iv) shell and tube evaporator.
- (1) Tube in tube evaporator.
- (vi) Shall and coil evaporator.

- (2) Based on the manner of fed of Refrigerant:
- (i) Flooded evaporator.
- voterogers anitopaxa yra (ii)
- (3) Based on Mode of Heat transfer:
- (i) Natural Convection evaporator.
- (ii) Forced Convection evaporator.
- (4) Based on operating (anditions:
- (i) Fresting evaporator.
- (ii) Non Fronting evaporator.
- (iii) Detrosting evaporator.