### DIPLOMA STUDENTS IN TECHNICAL STUDIO BY BHANU PRATAP SINGH

(प्रशीतन

REFRIGERATION

EQUIPMENT

Prime

Mover

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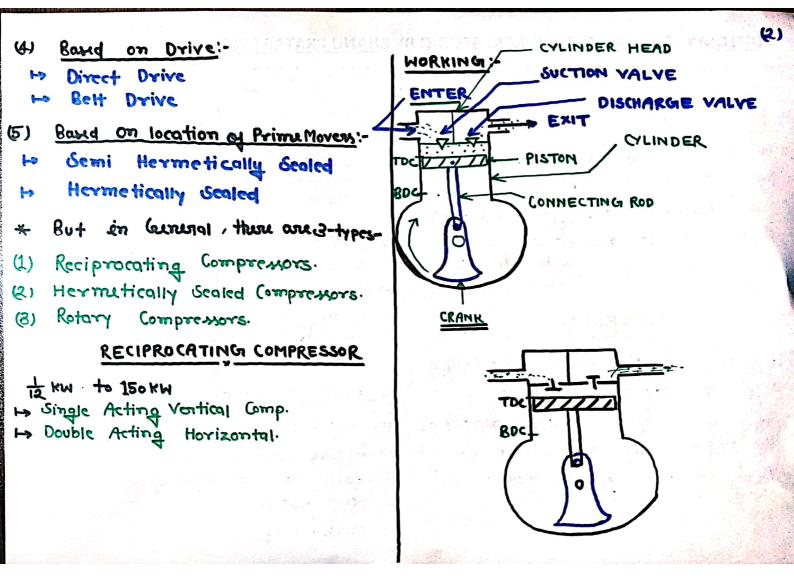
# INTRODUCTION :-

- which to transfer heat from one place to another place.
  - genurate Cooling effect Working fluid has to passed over -
    - (9) Compressors
- (c) Evaporators
- (b) Condensers
- (d) Expansion valve

# COMPRESSOR

- To Compress Retrigenment for high premure Vapour Retrigonant.
- To make sure Continuous supply of the Retrigorant in the system.
- Motor (or) Engine)

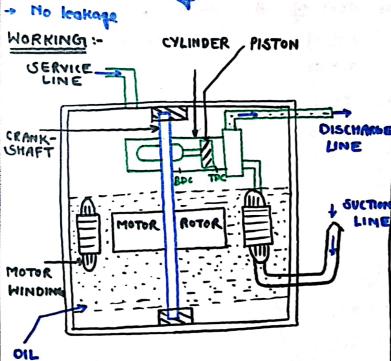
- Classifications of (ombrewor
- (1) Band on Working :-
- 10 Reciprocating, (Less displacement. 8-12-8-23)
- > Rotary (Medium Condumer, R-21, R-14)
- to Centritugal (More displacement of Volame, R-11, R-12, R-113)
- (2) Bared On No. of Stroke:
- + Single Acting.
- >> Double Acting.
- on No. (8) Based OLISTABES:-
- Gingle Gtage.
- Multi- Stage.



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# HERMETICALLY SEALED COMPRESSOR:

- > The short of Compressor and Motor all same packed in one unit. and I.C. Same casing.



- It may be rotating, Reciprocating. Horizontal, Kertical
- o used for Low RC Like Domestic Regrigerator, Window A.C.

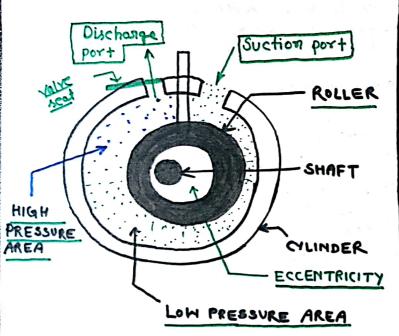
# Advantages :-

- to Leakage of the Refrigerant is Completely Avoided.
- Noisy in operation Less
- The lubrication is simple as the motor Compressor operates in a scaled space with the Jubricating oil.
- I+ econiacs less space.

## Disadvantages :-

- difficult because Posts are not accessible.
- to Extra pump is required for changing evacuation of Retrigerant

# ROTARY COMPRESSOR



- -> Having High volume Capacity.
- 1> Wed for R-12, R-22, NH3.
- A dixed Cylinder, Rollen and shaft
- to Rolley is rotating for suction. Compression

- bressure and temp. Continuously.
- he size of the compressive is very motor.
- Ho It is generally termetically scaled compressor.