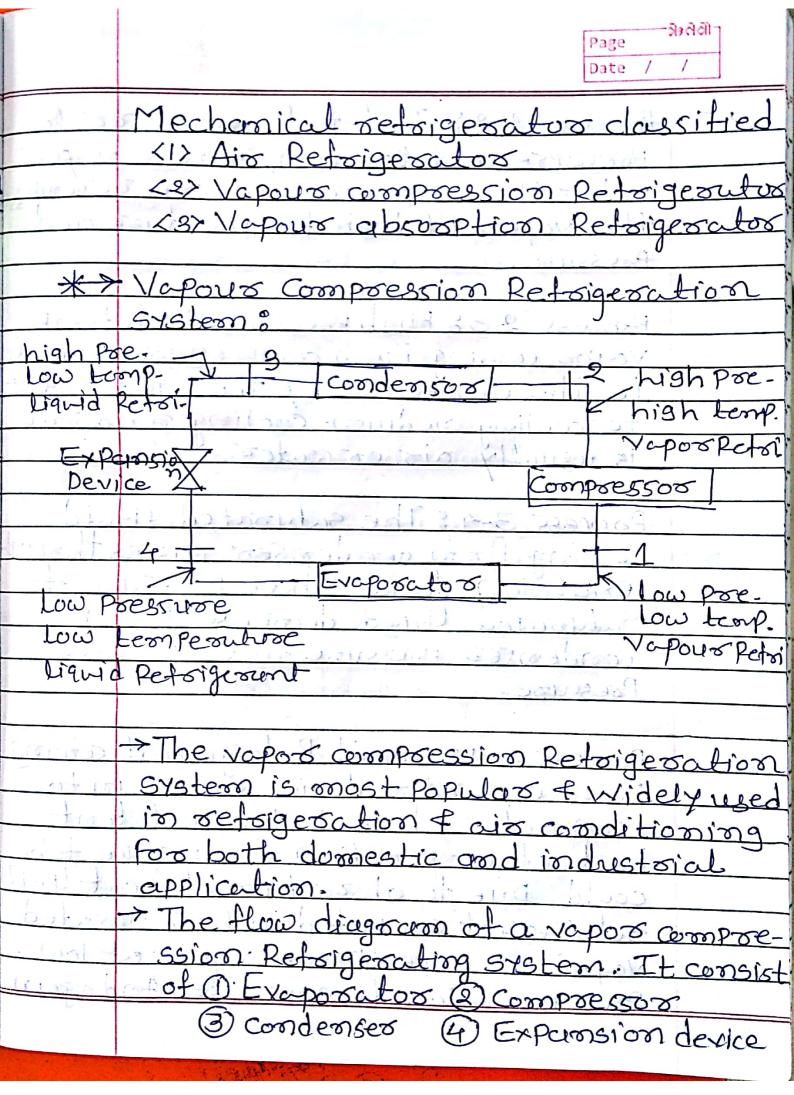


	Page Page / /
mt	In this device, external work is
	required to convey heat Foom cold
10 11	body to hot body.
	be the state of th
23146	cold body const.
	Heat
1. 611	and the property and the second secon
	RefrigertoREF - External
	Heat
. 1 6 5	Hot body (alm)
1130.0	
*>	Refrigeratoro It is a device used to
	maintain the low temperature below
of Est	the almosphere temperature within
r.l.	required Space.
- 'A	and the character of the last last last last last last last last
*>	Retrigeration: The method of reducing
	the temperature at a system below
	Surrounding temperature and maintain it at the lower temperature by
	it at the lower temperature by
	continuously abstracting the heat
	trom it. 10 inchtid and
	and an artist and a second and a
*>	Application of Refrigeration:
	- Storage and transportation of food
	10 dies of modicines conderand

	Page Decidi
	Date / /
y s	-> Manufactoing of ice roubber product
	textile
	-> Processing of Petroleum and other
	chemical Products
	-> liquification of gases like Ne,00, Heet.
w.	-> Cooling arates
	> Comfort air conditioning of hospital
	residence, office, hotels.
*~·	January Control Contro
~~ <u>*</u>	Retrigeration effect:
	A for of refoigeration is defined as
	Retogeration effect produced by mellin
of to	at 1 ton of ice from and at ocin
1005	24 hours.
J. Columbia	> The latent heat of ice is 335 KJ/1cg.
	Retrigeration offert nadius 11
~	1 too (1000 leg) (ce in 24 hours
William F	= 335 × 1000 KJ/ho
<u>Cool</u>	dinantan 124 gardinantantanti c
mistral av	= 14000 KJ/ho
	=14000 KT/min
1 10000	alter 60 rataria di namentano
	= 232.6 KJ/min
,	= 232-6 ET/S
1 1 1	=3.8888 KW
boot to	or veg inhere to construct the
Augtic w	53 - CADER CONTRACTOR OF THE STATE OF THE ST
Service .	

એક લેવો-Page Date / @ It should have theornal coorductivity have non toxic, non temm ave low specific heat at low saturation Presyr Dave have high coefficient of have economical in initial vigerators: Cooling effect Produce offert Produces by evaporation of liquid. In ding and Produce couling, Similarly Solid Sublimation Comelting). it a Food Suporapording and (2) Mechanical Retrigera mechanical energy or heat energy



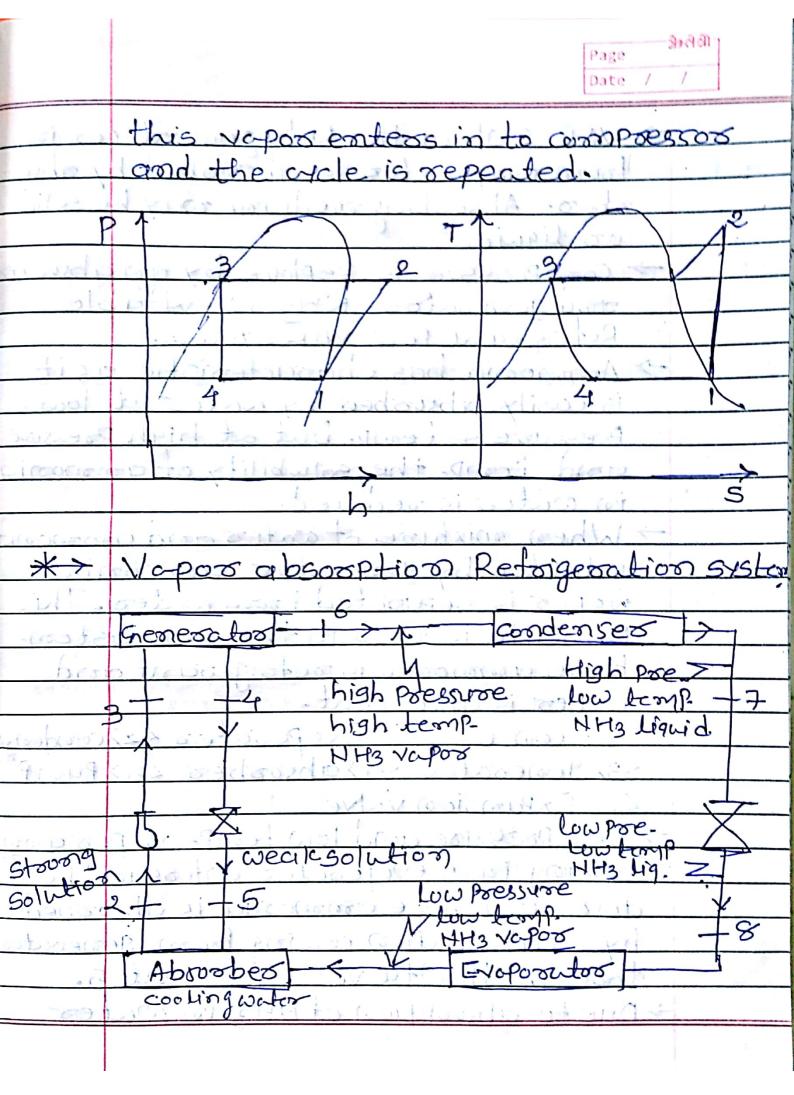
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Process 1-2: Inlet of compressor, low Pressure and Low temperature vapor enter the compressor. compressor compressor compressor at high temperature and "Pressure.

Process 2-38 High pressure, high temp.
Vapor combag from compressor condense in the condenses by the Rejecting heat to cooling medium. Cooling medium is usually air or water.

Process 3-4: The substated liquid coming form condenses passes through expension device where poesture of Substated liquid decreuse form Condenses pressure to evaporator Pressure.

Process 4-1: liquid Retrigerant aming
from expension device enters in to
evaporator where it absorbs latent
heat of evaporation from spice to be
coold. Due to absorption of heat liquid
retrigerant converted in to salvanted
vapor or super heated who at low
pressure & low temperature. And again



700	> VAR 31stern the Refrigerscent coming
	town evaporator is absorbed by about
	ober- Absorbing medium may be solid
	oo liquid.
	-> Compressor is Replace by an abook
	and generator- NHz is suitable
	Refrigerent for VAR 575 tem.
<u> </u>	> Amonomia has characteristic asit
	is easily absorbed by water at low
	Pressure & Loop, but at high Pressure
	and temp. the solubility of ammonia
- 2	in water is reduced.
	-> When mixture of anter and ammonia
-Hava co	is heated by generator ammonia
-	vapor is separouted from anter. This
1	Poinciple is used in the VARSYStem.
- 73	Here ammonia is refrigerant and
++-	conter is abcornent-
- 01-	-> It consist of(1) Evaporator <2> condense
	33) generator (4) absorber (5) Pump
- 545	26) Expansion valve
4	-> Low Pressure and low temp- vapor amme
1.6	coming from evaposator enters in the
	abrooher where ammonia is abroobed
a T.	by weak solution coming from generator
-	thoough throttle value at point 5.
	> Due to abrosption of NHB in water

Solution become strong. It amount of NH3 is morethon water is alled strong > Pyring abromption Process heatis released and rejected to cooling water The strong solution from absorber is Pumped in to generator, where itis heated & NH3 Vapor separated From solution. > In generator heat is supplied foun external source. The weak solution at Point 4 is flowing buck to abrosber through throttle valve -> Again weak solution in abroober absorbs NH3 vapor coming from evaposatos. NH3 vapos coming from generator at Point 6 Purces through condenser and it condensed in condenses and reject heat to cooling water. > Then liquid NH3 POINT 7 thoutfled through expunsion device and it enter in to evaporates Points. In the evaposatos NH3 evaposates by absorbing latent heart of evaporation to produce refrigeration effect. Thus eycle is completed.