Kerrigeration and The condition he defined as Nia Regrigeration simply means the cooling of or removal Signe the sovert of mechanical refrigeration water was kept cool by storing it in semi-porous jugs he water could seep through and exaporate. The evaporation coursed away heat and vooled the water. The Romana conved pack trains of snow from Alpa to Rome for cooling the Emperor's dright. These methods of cooling all make use of return phenomeran, They were used to maintain a power temperature in a space or product. the metting of ice or snow was one of the contract nettode of regrigeration and is atil employed, another medium of regrigeration is solid carbon dianicle or dry is At I Trace pheric preserve con connot erist in a liquid state and consquestly when solid co, is exposed atmosphere, it sublimates a it goes directly from solid to report by absorbing te latent heat of sublimation 6=0 hd/kg at lata, - 78.5 c) from the exercondings. The day ice is suitable for low temperature reprigeration. \* One of the most important applications of regrigeration has preservation of perishable food products, food Storing and Fransportation by storing Them at low Temperature tempustine or visit storage lip 100 \$ 4 350 7 1000 7350 \$ 4 100 ry seeds

To the trestment of an so out, persture, maistance contest, class, a process, a process, a value of a refrigeration and set of human need to food and genetar is to transper heat of a lower temperatures they

pertain the eyetem of a low frigerating System " and the see temperature is called

one should know before getting

cigy transferred by virtue c. Heat exists everywhere to is a form of energy it can be other forms of energy may be rec. It is very important to in only one direction from a whitence or area. Lay heat in an object, substitute ch all heat has been removed noval of annuanted heat from a x space and its transfer to pace. Removal of head lower accomplished by use of ice+ recel reprigation is is the The lastion of mechanis frigeration system" for the purp

Begrigeranto + The are chemical compounds that are alternately compressed and condensed into a liquid and ten premited to expend into a vapor or gas as they are pumped through the mechanical representation existen to The regardesotion eyele is based on the long known physica principle that a liquid expanding into a gas extracts heat from the surrounding expertance or area. A typical example of this is - Simply withing you jugger and holding it up it immediately begins to feel cooler than others particularly of exposed to some or movement. The?'s because the liquid in which you dipped it is evaporating and as it does, it entracts heat from the strong the finger Repregerants evaporate or "boil" oit much lower temperatures Then water, which permits them to extract heat at a more ropid rate than the water on your groger Tinciple of Kerngerotion In the process of regrigers then the available heat, with the system To be maintained at low temperature is continuously removed Transferred to the excrounding which is no high temperature. According to be second law of thermodynamics (Clavery theorem) the removal of hat grow low temperature is order to supply heat at high temperative is only possible by expolying external. work to the system under operation there a regregation needs external power for removing heat continuously grow the cabine ? to temperature over than the excepting. Dasie mechanism of reprigeration is I = Marinum Comparative 1: - Mormon temperature R = Regulator Q = Heat supplied to the Lot body - Heat removed your te low-temperature body We - Work required to produce low temporature

te surounding medio, because it is sycle removing some host and discharging . T. becoming contaminated and contrale to plan por . I principle of refrigeration changed our conditioning system to operate with the refrigerent must be used repeatedly. For this conditions we the same cycle of compression condusation, entension, and exeparation in a closed sixen some ryrigerent is need to move the heat good one

area, and to expel the heat in another area hot low- pressure gas, the represent moves the compressor where the entire cycle is repeated Adapatic compression of the refriquent gas besting of the gas Cooling of the heated the regregator (the freeze ) through a trattle interior of the facezer absed, actionative deposition collection of the

heat pumps all have the came basic components
- basic components
heat pumps all save he came
1 + + consus best
A A complete the cold control control
i) An exaporator + The cold coul fat removes heat
The warm coul that rejects the heat call
a I conclused
a A concluser to the warm could that rejects the heat can by the evaporation.
- I TI to though the entire system to
3 Defricerant free like 1903
3 Regigerant Green ) That was through the entire system transport heat
# 7 # 1
4 A compressor + Enrically a prings that mores the represent
- place to place
N/E All the components work together to achieve one thing, while removal of inwented heat from one place and deliver it is a place where it can be rejected.
removal or invented heat from one place and deliver it
slave where I can be rejected.
Regardons had made lipe so much easier than it was best
when they did not exist and today it is the most essential and
- used appliance in our life . Famy Ting beneficial comes with to
problems, refre gerators have a slew of mucellaneous problems.
may occur and to may lead to all stored good to sport and a
I held These Tennesses III
repair is needed.
repair is needed.  Contrar problem.  Contrar problem.  Strange noise from the resistantes.
Continuous water leakage
Strange noce from the regrigerature
Temperative not cold enough
> Freezing of forch of the bottom part
Dillor Co. F
- les buildes un month the
le building up inside the fridge
the building of inside the fridge.
the building of laster the fudge.
the building of laster the fudge.
Continuous Wate leologe + A reprigerator legks water the water supply line freezes and splankes water continue

It can also leak when the drawn hose gets clogged with good particles, regetable leaves and other littles and scraps. ties the value behind the parel of the exprigerator s chosed clearing to blockage and checked when the condense motor for stope applica you gets blacked due to Whata rotates, the clicking council produced - de by mplaging the reprigerative at This can also happen when the distance between the presse lemperature not cold enough Clogged coals locate con add to be raised temperature inside and result in inadequate cooling . This can be so by the removal of exercistar copinet and replace to for. The conderest jon is clogged with letter also plays a rate in inadequate cooling of the regregation. abramal for good at the botton part to may be insufficient compered to the surface be occupied and the air to well madequate jood compared to the amount the good Finds to presze to temporative regulating point are Too much but - temperature setting post con course food to ferries inside the bottom port This can be solved by setting the regulatory portet



