

# Reciprocating Pump Working Principle

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Nanyang Technology University Semester 1 2019-2020 ...

In reciprocating pump, the flow is pulsating and a fixed ... and it works on the principle of centrifugal force. Water is fed to the purifier to form a ... Generally, the working efficiency is around 50% and the typical energy content of HFO is 41 kJ/g. (b) Comparison between 2- ...

Volumetric Pumps and Compressors Test Questions

(Build-up, working principle,  $Q(p)$  curves) Give an example of both types. 2. De ne speci c speed! Explain the quantities in the equation, give their units! 3. We need a pump with ow rate 500 liter/min and 60 m head. The driving motor revolution number is 3000 rpm. What type should we use? 4. A pump delivers 20 liter/min fow rate at 60 bar ...

## **Owner's Manual - Air Compressors Direct**

The basic principle of operation is as follows: On the suction stroke of the first-stage piston(s), air at atmospheric pressure enters the cylinders through the inlet filter(s) and then the inlet valves located in the head. On the compression stroke of the first-stage piston(s), the air is compressed to an intermediate pressure and discharged

EXPERIMENT 7STUDY OF REFRIGERATION SYSTEM: ...

discharge valve. In this way, the basic working of a reciprocating compressor is exactly same as that of a cycle pump. We can thoroughly understand the principle of working by physically examining the fixed and moving parts in an actual compressor. The role of a condenser is to reject heat of compressed refrigerant to atmosphere

## *UNIT 13 CENTRIFUGAL PUMPS*

13.5 Parts of a Centrifugal Pump 13.6 Principles of Working of a Centrifugal Pump 13.6.1 Velocity Triangles at Inlet and Exit 13.6.2 Pressure Rise in Impeller 13.6.3 Work Done and Manometric Efficiency 13.7 Design Aspects of Centrifugal Pumps 13.8 Operation of Pumps 13.9 Pump Characteristics 13.9.1 ' specific Speed and Similitude Studies