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CONTROL DEVICES IN REFRIGERATION SYSTEM

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GENERAL INTRODUCTION

1.0 THE PURPOSE OF CONTROLS IN REFRIGERATION SYSTEM

By definition refrigeration is a process by which heat is removed from a space to a place where it makes no difference whereas a system is an interaction or coordination devices design for a purpose(s). Now, most of the time refrigeration system is required to operate with a predetermined parameter. For instance at certain interval of time the refrigeration system may be required to generate part load. In this case the ability of the system to automatically change its refrigeration capacity in response to load demand becomes very important. As such the operation of different system components or equipments may have to occur in a certain time sequence. The mode of operation of a system component may as well have to be periodically changed, as in defrosting or switching a heat purpose cycle.

Besides that abnormal working condition like extremely high temperature in which the system component operate may cause damage to the component. This requires a need to take some preventive or safety measures to arrest the problems that can cause damages to the system and its accessories.