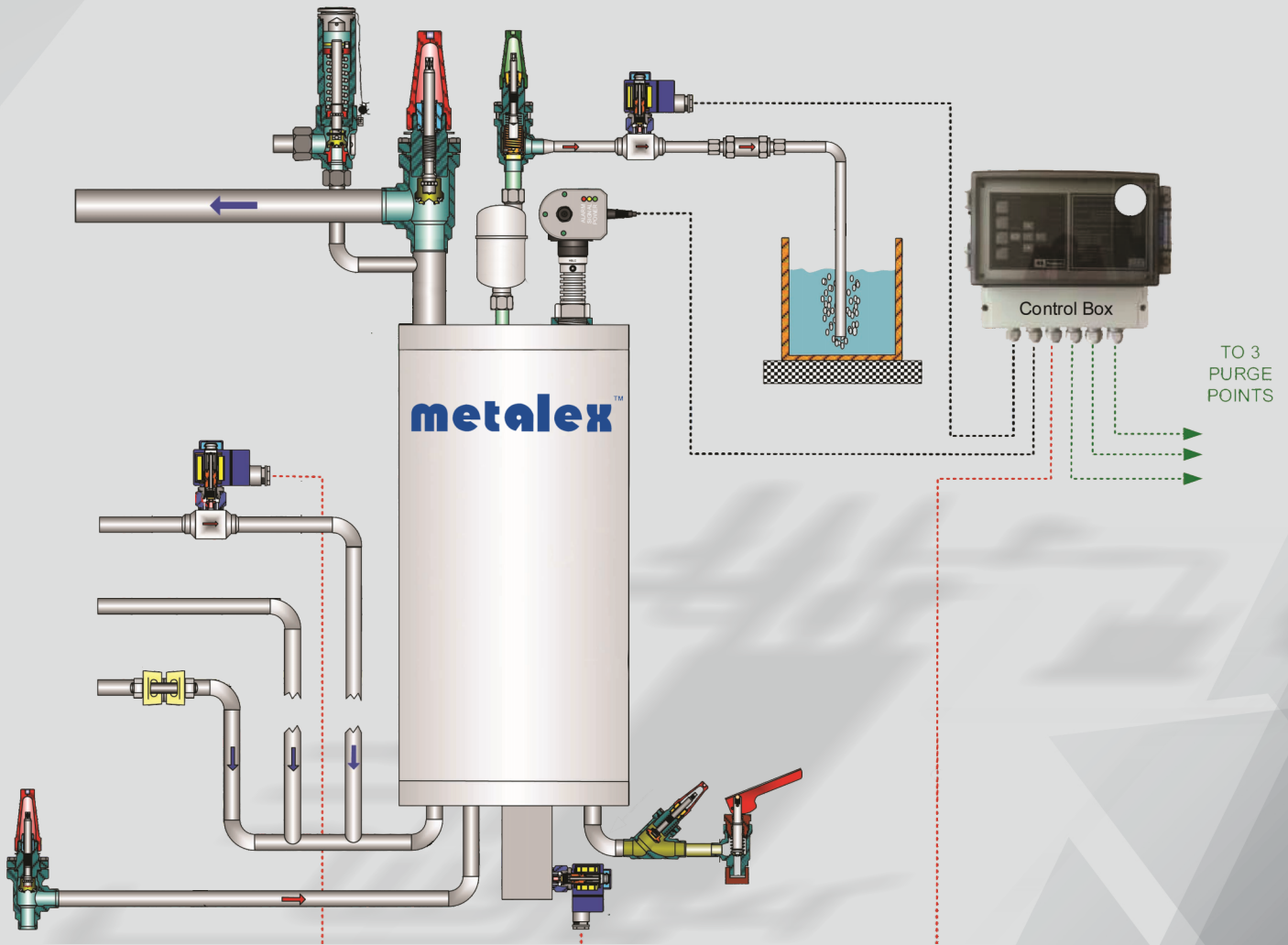


**ENERGIZING
EFFICIENCIES**



REFRIGERATION SYSTEM AIR PURGER



REFRIGERATION SYSTEM AIR PURGER

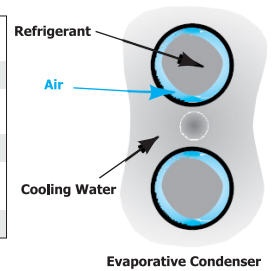
HOW AIR AFFECTS REFRIGERATION PLANTS

Any air present inside the equipment used in a refrigeration plant reduces the effective surface of the condenser and evaporators. This then results in higher operating costs and premature wear of compressor parts.

The presence of non-condensable gasses in the condenser leads to poor heat transmission between refrigerant vapor and cooling water, and this reduces the condenser capacity. Moreover, the total pressure, which is equal to the sum of the partial pressures, will increase in the condenser and this means a reduction of the compressor capacity resulting in increased power consumption and longer running time.

Symptoms of air in Refrigeration system:

- Increase in Discharge pressure
- Loosing capacity over the years
- Capacity problems during summer
- Increased power consumption
- Higher service/Maintenance cost



Evaporative Condenser

Air acts as an insulator between the refrigerant and the cooling surface, greatly condensing efficiency.

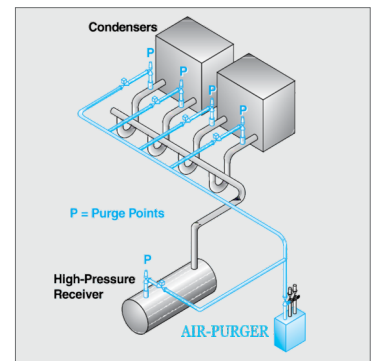
INTRODUCTION :

The MAP Air Purger is specially designed to maintain the efficiency of an ammonia refrigeration plant by removing any air present in the Refrigeration system.

Metalex Air-Purgers are the leader in multipoint purging. Multipoint purging is the only effective method for removing all air from a refrigeration system. In addition, Metalex Air-Purger allows a large amount of air to be removed quickly. This helps ensure that the refrigeration system runs at its design capacity, especially in hot weather months.

A single MAP Air Purger unit is perfectly capable of removing any air present in refrigeration installations of virtually any size. This is because it can be connected to as many as 16 different purge points, quickly and effectively removes all non condensable air from the system

Installing an MAP Air Purger in your refrigeration plant helps ensure maximum operating efficiency, as well as avoiding unnecessary costs in the form of additional power consumption or extra maintenance. It also provides you with drastic reductions in breakdown risks.



RAPID RETURN ON INVESTMENT

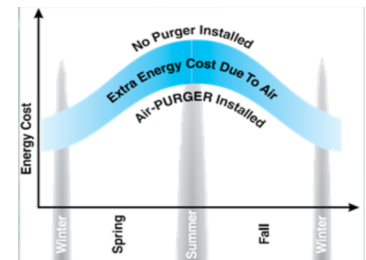
For a medium-sized refrigeration plant, the MAP Air Purger will feature a payback time of less than one year, with all future savings ending up directly on your bottom line.

Ordering Code:

Model	Description
MAP-03	Air-Purger with 3 point controller
MAP-16	Air-Purger with 16 point controller

Benefits of Metalex Air-Purger:

- Multipoint Purging
- Compact in size
- Payback typically within one year
- Large air removal capacity over a short time span
- Very less power consumption
- Removes only Non-condensable gas
- Intelligent Inbuilt Controller



This picture provides a quick overview of energy cost (For every 10 psi increase in condensing pressure, there is approximately a 6% increase in power consumption by the compressors

OTHER PRODUCTS



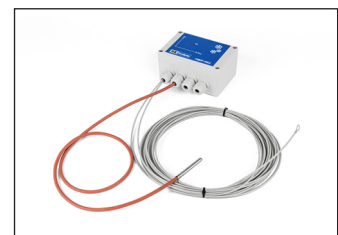
Ammonia gas detectors HBGS



Ammonia level switch HBSR-SSR



Compressor protection HBCP



Defrost controller HBDF - MK2

Metalex Cryogenics Ltd.

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