



NTP PENTHOUSE EVAPORATORS

APPLICATIONS

There are numerous engineering specifications and details to consider when designing or retrofitting a cold storage space. The size and shape of the room, storage capacity, materials of construction, and the size and type of refrigeration evaporators are just a few of the major design decisions. When selecting the evaporators, the following are a few of the things that should be included on your checklist:

- Maximize storage space within the building envelope.
- Eliminate possible damage to evaporators, piping and valves by material handling equipment and/or forklifts.
- Provide easier and safer working conditions for maintenance personnel servicing the evaporators, valves and piping.
- Minimize or eliminate possible product damage due to refrigerant leaks.
- Optimize air distribution and temperature control while minimizing the number of evaporators.

DESIGN INNOVATIONS

EVAPCO's innovative NTP penthouse evaporators for freezers and coolers, will meet or exceed all these checklist items. Ceiling hung evaporators, with their valves and piping, can consume as much as 96 inches of valuable refrigerated storage space across the entire ceiling of a cold storage area. EVAPCO'S NTP penthouse design reduces or eliminates this "evaporator space" since the only component in the refrigerated space is the low profile horizontal airflow discharge plenum. This feature can lower the building height, resulting in capital cost savings, or even better, increased refrigeration storage capacity within the same building envelope. To put this in perspective, this could result in over 300,000 cubic feet of **additional storage space** in a typical 200 foot by 200 foot cold storage facility.



With NTP penthouse evaporators, all of the control and refrigeration valves, piping, fans, coils and motors are on the roof, making it impossible to damage these items with forklifts or material handling equipment. And no more valve packing leaks in the refrigerated space.



NTP PENTHOUSE EVAPORATORS



ROOF TOP INSTALLATION

DESIGN FEATURES

Maintaining and servicing ceiling mounted evaporators in cold storage areas can be at best very uncomfortable and in many applications dangerous. Maintenance personnel dread working on lifts, ladders, and over racks twenty-five feet high or higher in sub freezing temperatures. Servicing the NTP penthouse system is performed on a flat roof with all serviceable components, except the unit motors, outside the refrigerated space.



DISTRIBUTION PLENUM

When compared to a ceiling hung system, the NTP system's two, three, or four way discharge plenum options provide maximum air distribution flexibility and temperature uniformity while reducing the number of air units. Fewer units mean fewer valve stations, electrical runs, roof supports, and other installation and maintenance costs.



The NTP's innovative design features make it the penthouse of choice. The insulated enclosure is a one-piece design, walls and roof, with no cam-lock seams or joints common in penthouse designs by other manufacturers. This results in a vapor tight enclosure and eliminates air leaks and infiltration which can occur in cam-lock designs.



EVAPCO's NTP evaporators include specially designed motor lift arms and full size walk-in service doors making servicing interior components easier than any other penthouse in the industry!



Fan and motor assemblies are designed to be removed in one piece and do not require working "blind" through a welded frame and fan blade to reach the inaccessible fan bushing. No more "fishing" the blade through the welded fan frame.



EASY ACCESS EVAPCO FAN



COMPETITION'S FRAME

Full size access doors on each side of the unit eliminate the potential "enclosed space" issues experienced by competitors small, crawl through, access doors.



EVAPCO'S FULL SIZE SERVICE DOOR



COMPETITORS SERVICE DOOR

PROVEN THERMAL-PAK® COIL PERFORMANCE

And lastly, the NTP evaporators utilize EVAPCO's exclusive Thermal-Pak® aluminum and galvanized steel finned evaporator coils. This provides guaranteed thermal performance resulting from thousands of hours of research and development in the low temperature evaporator test laboratory.



EVAPORATOR TEST STAND



THE FUTURE IS NOW WITH THE NTP

Maximized storage space, safer operation, easier maintenance, improved air distribution and temperature control with fewer units, lower installation costs, and innovative design features.

The EVAPCO "NTP" penthouse evaporator fulfills all your requirements.



EVAPCO...Taking Quality and Service to a Higher Level!!

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