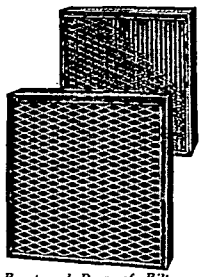
The Cooling Tower Co., Inc.

15 John Street NEW YORK, N. Y.

Tangldust Air Filters, Cooling Towers for Theater Cooling Systems, Spray Nozzle Cooling Systems and Impact Air Washers

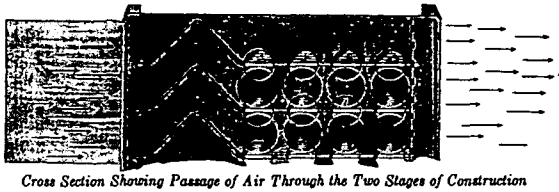
Tangldust "Two-stage" Air Filter



Front and Rear of Filter, Showing Wire Coils of Second Stage in Rear of Filter.

The Tangldust is a "two-stage" air filter, built in standard units, that removes 97 per cent of the precipitable dust and dirt. The "two-stage" feature is a refinement of ordinary filter design, and takes into consideration the fact that ordinary air contains both heavy dust and fibrous matter and also fine dust.

This type of construction provides for the depositing of the bulk of the coarser dirt on the first stage, consisting of baffle or eliminator plates vertically arranged across the front of the filter. The remaining dust which passes through the first stage is deposited on the wire coils of the second stage which are arranged in increasing density from front to rear of filter. This dust eventually dislodges and falls to the bottom of each coil, preventing the building up of a resistance to the air flow within the filter.



Cross Section Showing Passage of Air Through the Two Stages of Construction

THE WIDE RANGE OF APPLICATION.

GENERAL VENTILATION.—Schools, hospitals, hotels, museums, theaters, restaurants and public buildings.

ELECTRICAL VENTILATION.—Cooling turbo-generators, sub-stations, buss galleries, telephone exchanges, etc.

BACTERIA CONTROL.—Hospital operating rooms and contagious wards, bottling plants, etc.

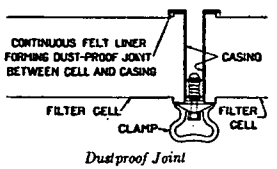
DUST RECOVERY.—For recovering valuable dust, such as gold and silver; also for control of injurious dust, such as lead, abrasives, chemicals, flour, starch, aluminum, etc.

DRYING OPERATIONS.—Butter, eggs, fruit, laundries, paint, milk, sugar and chemicals.

AIR COMPRESSORS.—Internal combustion engines and pneumatic tools.

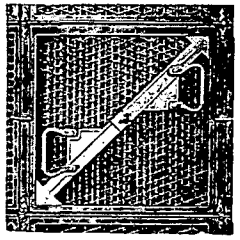
Important Features and Advantages of Tangldust Filters

DUSTPROOF CONSTRUCTION.—While the Tangldust filter cells or units are interchangeable, the supporting or enclosing frame is built to meet the specifications of each installation. This, together with our special dustproof joint — consisting of a continuous felt liner between the cell and casing—insures a dustproof installation even after many years of the most severe service.



Dustproof Joint

EASY TO CLEAN AND RECHARGE.—The method of cleaning the filter — consisting in placing the cell first in a cleaning and then in a charging tank, each operated by simply raising and lowering a counter-balanced bar—can be accomplished quickly and easily. The handling of the cells or units is greatly simplified by the use of a special removable handling bar, illustrated herewith.



Removable Handle for Easy Handling of Filter Cells

LESS FREQUENT RECHARGING.—This is the result of the use of the special removable oil pad, saturated with Tangelene oil, which is placed at the top of each filter cell. In operation, it continues to keep the filter surfaces constantly moistened with oil long after the ordinary filter has become inoperative. This naturally results in less frequent recharging being required.

VERY LOW UPKEEP COSTS.—The form of construction of the Tangldust filter, making cleaning much easier and recharging less frequent, makes it most economical in upkeep. The most inexperienced operator can easily take care of a good-sized installation.

Filter Specifications

Furnish and install as shown on plan, an air filter such as the Tangldust Air Filter manufactured by THE COOLING TOWER CO., INC., *New York, N. Y., capable of cleaning 800 cu. ft. of air per minute, velocity not to exceed 350 ft. per minute. Filter shall be constructed in two stages with a renewable oil pad at the top of each filter cell for greater efficiency, easier cleaning and to prevent the filter drying out between charging. Resistance of filter at 800 cu. ft. of air per minute per cell shall not be more than .3 in. water gage and not more than .3 in when each cell has accumulated 1½ qts. of dust.*

SEND FOR BULLETIN 255-G

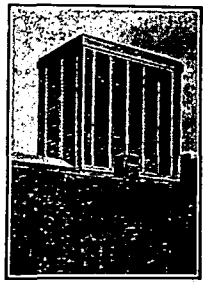
Cooling Towers for Theatre Cooling Systems

Cooling towers are designed to recool the circulating water in air refrigerating systems.

They are being very successfully applied to the cooling equipment of theatres, where they assure a plentiful supply of cool water being always available for the refrigeration system.

This eliminates frequent repairs and shutdowns of the system.

For further information send for catalogue.



Tower on Rivoli Theatre, New York City

DURO AIR FILTER COMPANY

HOME OFFICE—3151-3155 SHIELDS AVENUE

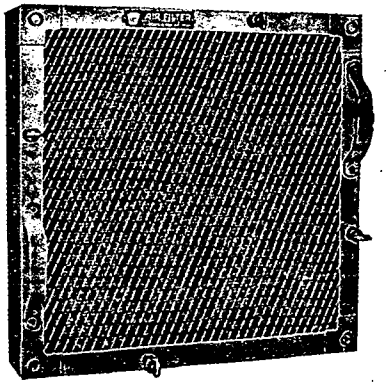
CHICAGO

Represented in

NEW YORK CITY, BOSTON, MILWAUKEE, TORONTO, CLEVELAND, DETROIT, KANSAS CITY, ST. LOUIS, AND OTHER PRINCIPAL CITIES

THE AIR FILTER EVERLASTING

With a copper filtration medium, a substance ideal for its purpose, DURO AIR FILTERS are suited to any application where a Clean Air Supply is important.



A Superior Product!

ALL PATENT RIGHTS RESERVED

Features of Importance:

1. Simple, Effective Cleaning accomplished by ordinary unskilled labor with minimum of difficulty!
2. By Rotative Cleaning a Constant effect in pressure characteristics is maintained!
3. Rough Stop of Coarse Dust!
4. Cavernous Region for Retention of Dust Load!
5. Final and Complete Elimination of Finest Particles!
6. Filtration Media Non-Friable!
7. Non-Corrosive!
8. Non-Magnetic!
9. Electrolytically Inert!
10. Lightweight, Durable, Sturdy Design and Construction Throughout!

Write for complete specifications and performance data