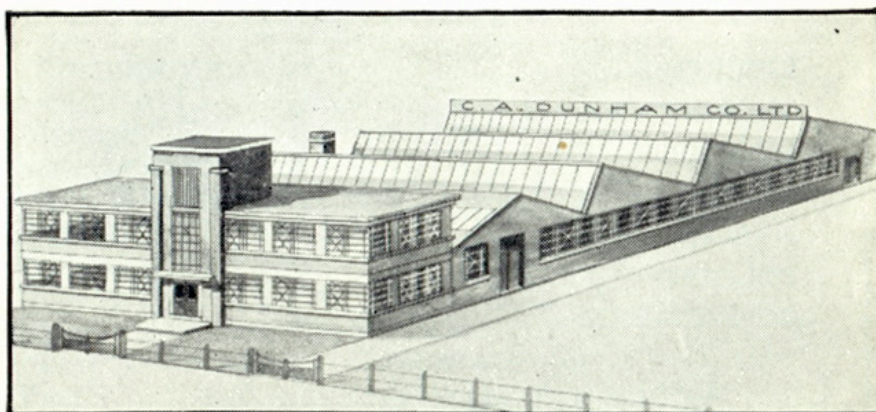

The DUNHAM
HAND BOOK

No. 514

C. A. Dunham Co., Limited

C. A. DUNHAM CO., LIMITED

(Of the United Kingdom)



General Offices and Factory
Morden Factory Estate Morden Road
London, S.W. 19, England

DUNHAM UNIT HEATERS

A Bit of History

DUNHAM Unit Heaters are an outgrowth of one of the pioneers in the unit heater industry. They were originally designed to treat more economically, than had been the practice, the heating and ventilating of buildings which could be called quite literally "sweat" shops, but their value for heating all types of industrial buildings was soon recognized.

The original Dwyer Unit Heater was a bulky piece of equipment, utilizing cast-iron blast coils for heating elements. However crude they might have been, these first heaters built just after the World War, are operating as satisfactorily today as when installed.

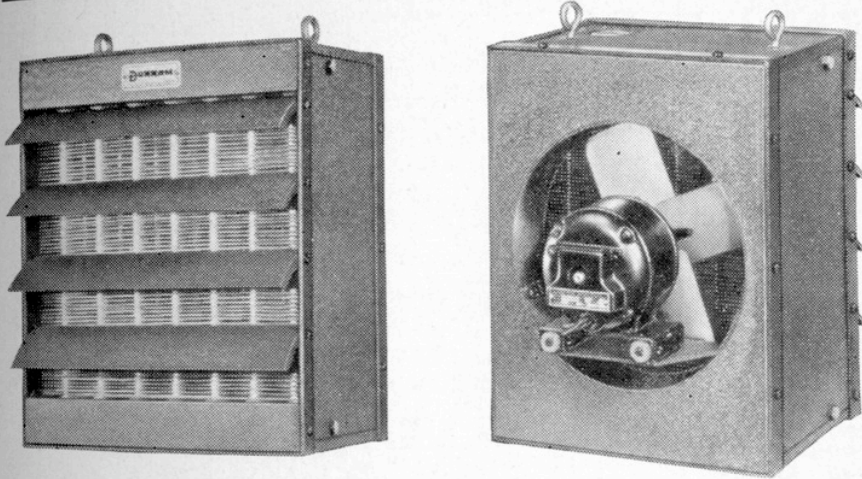
The same unit heater, with only minor refinements, was used until 1926, when a copper tube heating element with a bonded fin surface was perfected. It had all the strength, ruggedness, and long life of the old cast-iron, plus the additional features of light weight, ease of assembly, simplicity in the event of necessary repairs and the greater heat conductivity of this non-corrosive metal. This same copper tube radiator is used today in *some* types of Dunham Unit Heaters. Type D and Type R Unit Heaters described in following pages employ this kind of heating element.

Recognizing the advance in radiation standards foreshadowed by these early unit heaters, and their adaptability to Dunham Heating Systems, the C. A. Dunham Company purchased the business of the Dwyer Equipment Company in 1930. The present complete line of Dunham Unit Heaters has been developed from this well established nucleus.

The largest of these early unit heaters was 6'7" by 5'6" in plan dimensions, and 9'0" high, weighing complete nearly four tons. Compare this with a modern Dunham Unit Heater of equal capacity, 6'0" long, 2'6" deep, and only 30" high, weighing but 700 pounds and capable of being suspended from any ceiling or roof construction. The contrast gives a definite idea of the strides which have been made in design. The decrease in cost has kept pace with the increase in efficiency and design, until today a unit heater sells for less than half the price of the "old timer" of equivalent heating capacity.

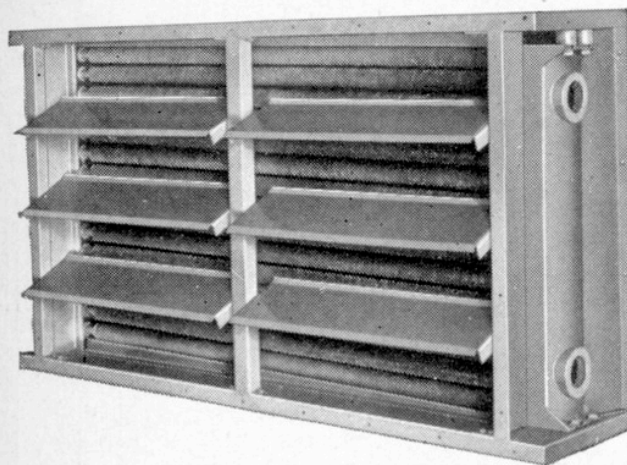
Dunham Unit Heaters are manufactured in four distinct types, comprising 53 sizes, to meet every unit heater requirement, from industrial to residential.

DUNHAM UNIT HEATERS TYPE V

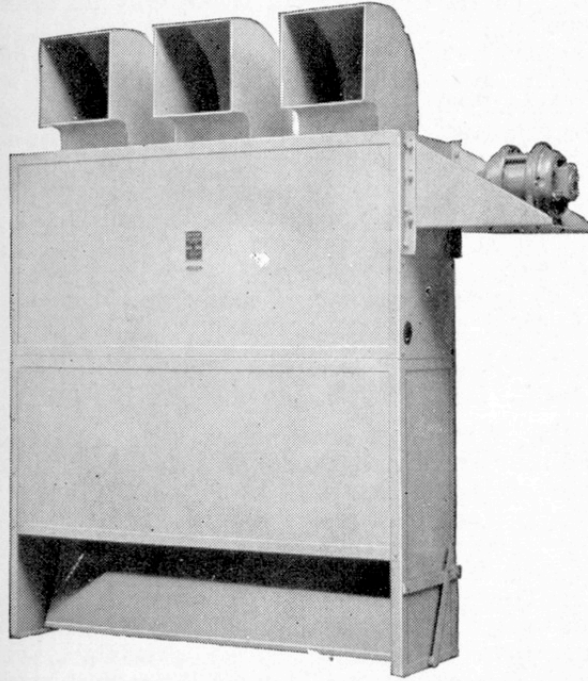


DUNHAM Type V Heaters are of the small propeller fan type. They are usually installed suspended from the ceiling or roof construction, or from the wall. Thirty-six sizes, ranging from an equivalent of 95 sq. ft. to 1100 sq. ft. of equivalent direct radiation, present a range of capacities sufficient to fill any requirement for this type of industrial unit heater.

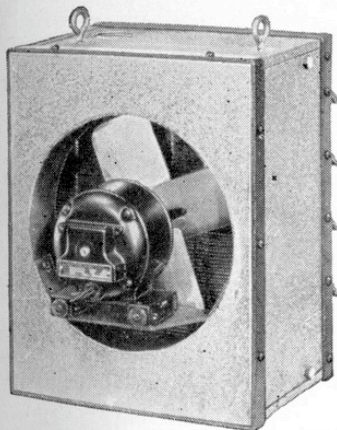
DUNHAM UNIT HEATERS TYPE D



DUNHAM UNIT HEATERS TYPE R



DUNHAM UNIT HEATERS TYPE V-RT



Type V-RT Heater, rear view

DUNHAM Type V-RT Heaters are made in five sizes ranging from 381 to 1132 square feet of equivalent direct radiation. They are of the small propeller fan type usually installed suspended from the ceiling or roof construction, or from the wall.

DUNHAM UNIT HEATERS TYPE M

THE Dunham Type M Unit is a compact, well dressed cabinet type heating unit, quiet in operation, efficient, and soundly constructed for life-time service. It is a "different" sort of unit heater. It is not a miniature industrial type, but a refined finished product, designed for use in small finished rooms, where good appearance, quiet operation, and freedom from drafts are essential.

It is designed particularly for application in vestibules and lobbies of large buildings, general offices, display rooms, retail stores, private garages, recreation rooms in homes or churches,

