

AMERICAN SOCIETY of
HEATING and VENTILATING
ENGINEERS GUIDE

1924-25



PART I

HEATING

INTRODUCTION

IN an effort to establish a more uniform practice in the design of heating systems and the installation of the necessary equipment by engineers, architects and contractors, the Society has undertaken the compilation of the most practical information available on the subject and for this data has drawn upon the experience of its members, the results of its Research Laboratory investigations, reports of its technical committees, the TRANSACTIONS and other reliable sources.

Each step in the planning of a heating installation is logically taken up, consideration being given to heat loss, heating apparatus, the piping system and all other items that go to make up a successful system for heating any type of building whether it is a home, factory, school, church or other public building and no matter what the fuel or climate. Examples are given in connection with the text, tables and illustrations so that the procedure is clearly set forth and the results to be expected from the use of the rules given will be in accord with the best engineering practice.

PARTIES RESPONSIBLE FOR
HEATING PLANT PERFORMANCE

It is well to first determine the responsibilities of the three parties upon whom the successful performance of the heating plant depends before setting forth the various factors that must be considered in the proper design of a heating plant. The parties primarily responsible for the performance of the heating plant are the owner, the heating contractor, and the boiler manufacturer. The owner is held responsible for the acts of his agents, such as the consulting engineer and the architect, also the builder.

The owner is responsible: *first*, for the proper construction of the building, according to the plans and specifications furnished to the heating contractor; *second*, for the proper construction of a smoke tight chimney, having at least the minimum dimensions and height to produce the required quantity of draft as recommended by the boiler