HOT WATER SUPPLY AND KITCHEN BOILER CONNECTIONS; A TEXT BOOK ON THE INSTALLATION OF HOT WATER SERVICE IN RESIDENCES AND OTHER BUILDINGS AND METHODS OF CONNECTING RANGE BOILERS, STEAM AND GAS WATER HEATERS

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WILLIAM HUTTON

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Trieste

Hot Water Supply and Kitchen Boiler Connections

A Text Book on the Installation of Hot Water Service in Residences and Other Buildings and Methods of Connecting Range Boilers, Steam and Gas Water Heaters

By William Hutton

Based on Articles from
Metal Worker, Plumber & Steam Fitter
with Addenda and Useful Tables

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PREFACE.

Every man who has been engaged in the plumbing business or who has had to do with the design and construction of buildings requiring a supply of hot water at the various sanitary fixtures, will concede that there is no other branch of building construction in which trouble is easier to find by a departure from correct design or by improper construction.

Those who do not admit it need only study the columns of trade papers devoted to plumbing topics to find that more problems are presented for solution in this line than in any other branch of plumbing, and the same can be said of all countries possessing trade papers. There need be no reflection on the plumber in admitting this. The subject is one that requires more study of principles than practical experience in construction, and it is generally found that when unsatisfactory systems are constructed the mistake is in design through an improper understanding of principle, and not because of poor workmanship.

The popular hand-book "Kitchen Boiler Connections"—dealt principally with piping problems and with the connections to boilers in the smaller type of residence. While the examples shown in the book which is designed to replace it cover the larger buildings as well, it has been recognized that the former are the more important by reason of their far greater number and therefore the examples of piping construction and connections for small buildings are shown in greater variety. This is considered all the more necessary, as the opportunity for departure from certain standard types of construction are more in small buildings than in large ones, as a rule, owing to greater variety in architectural design.

All of the methods of connecting heating appliances of various types have come under the author's personal observation, and it has been his intention to show as nearly as possible such connections as may be considered standard and which are likely to become necessary at some time in the practice of others, while eliminating examples which might be considered freakish or exceptional. Much of the material in the book has appeared

in the pages of *"Metal Worker, Plumber and Steam Fitter,"* and such parts of the previous book on this subject as applied to up-to-date practice have been retained.

While it is not to be expected that every combination that can be satisfactorily used is shown, it is hoped that the examples which have been selected are varied enough to serve the purpose of guiding the inexperienced mechanic to the selection of a form of construction which will give satisfactory service for the special conditions he may have to work to, and it is hoped that these have been set forth in such a manner that a little study will enable him to grasp the principles which have to be kept in mind in selecting them. If this is done and each problem carefully considered with these principles in mind, there will be less need for the services of the "trouble man" in hot water installations.

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