

EDITORIAL ACKNOWLEDGMENT

FOR 16 years the HEATING, VENTILATING, AIR CONDITIONING GUIDE has been published by the AMERICAN SOCIETY OF HEATING AND VENTILATING ENGINEERS and it retains its leadership as the authoritative reference volume of the profession and its allied industries. Its users are legion and they have adopted The Guide as their standard reference source because they recognize that the data are unbiased, up-to-date and readily usable. This has been made possible because of the willingness of hundreds of technical experts to contribute freely from their knowledge and practical experience for the advancement of the profession.

To the following individuals the Guide Publication Committee is profoundly grateful for their assistance in the production of the 1938 edition, and also to those former contributors who have previously prepared a firm foundation for the addition of new material.

H. E. ADAMS	C. D. GRAHAM	J. S. PARKINSON
T. N. ADLAM	W. A. GRANT	H. G. RAPFOLT
J. C. ALBRIGHT	J. R. HERTZLER	PROF. T. F. ROCKWELL
H. L. ALT	C. G. HILLIER	J. O. ROSS
O. W. ARMSPACH	F. C. HOUGHTEN	S. I. ROTTMAYER
C. L. ARNOLD	PROF. C. M. HUMPHREYS	PROF. F. B. ROWLEY
C. M. ASHLEY	H. F. HUTZEL	J. S. SANDFORT
PROF. J. L. BEAL	L. P. HYNES	PROF. W. M. SAWDON
F. R. BICHOWSKY	A. J. JOHNSON	PROF. L. E. SEELEY
J. L. BLACKSHAW	E. F. JONES	LESTER SEELIG
M. G. BLUTH	C. F. KAYAN	C. G. SEGELER
C. A. BOOTH	R. T. KERN	A. M. SELVEY
C. J. BRAATZ	R. E. KEYES	C. D. SHIELDS
C. E. BRONSON	PROF. V. O. KNUDSEN	R. W. SHIELDS
PROF. A. I. BROWN	PROF. S. KONZO	A. L. SIMISON
C. A. BULKELEY	PROF. A. P. KRATZ	D. C. SIMPSON
W. H. CARLTON	PROF. G. L. LARSON	T. H. SMOOT
P. D. CLOSE	L. L. LEWIS	A. E. STACEY, JR.
SABIN CROCKER	S. R. LEWIS	D. J. STEWART
R. C. CROSS	H. A. LOCKHART	C. A. THINN
D. N. CROSTHWAITE, JR.	ARTHUR MCCUTCHAN	R. J. THOMPSON
PHILIP DRINKER	PROF. L. G. MILLER	W. W. TIMMIS
G. G. EARLY, JR.	PROF. P. E. MOHN	PROF. G. L. TUVE
E. V. ERICKSON	L. L. MUNIER	J. H. VAN ALSBURG
C. E. ERNST	H. C. MURPHY	F. O. URBAN
JOHN EVERETTS, JR.	PROF. D. W. NELSON	A. R. WALKER
PROF. M. K. FAHNESTOCK	P. NICHOLLS	J. H. WALKER
W. L. FLEISHER	R. F. NORRIS	PROF. G. B. WILKES
W. G. FRANK	A. J. OFFNER	M. S. WUNDERLICH
J. E. GODFREY	O. W. OTT	PROF. C. P. YAGLOU

The members of the Society are especially indebted to these engineers who have aided in the preparation of this volume and the Guide Publication Committee hereby expresses its appreciation for the loyal cooperation of the many contributors to this 16th edition.

GUIDE PUBLICATION COMMITTEE

ALBERT BUENGER, *Chairman*

S. H. DOWNS

C. H. B. HOTCHKISS

E. N. McDONNELL, *Advisory*

S. S. SANFORD

W. H. SEVERNS

JOHN JAMES, *Technical Assistant*

CONTENTS (Concluded)

SECTION V. AIR SYSTEMS

	PAGE
Chapter 19. Gravity Warm Air Furnace Systems.....	377
Chapter 20. Mechanical Warm Air Furnace Systems.....	393
Chapter 21. Central Systems for Heating and Humidifying.....	409
Chapter 22. Central Systems for Cooling and Dehumidifying.....	423
Chapter 23. Unit Heaters, Ventilators, Air Conditioning, Cooling Units.....	435
Chapter 24. Cooling and Dehumidification Methods.....	469
Chapter 25. Spray Equipment for Humidification and Dehumidification.....	499
Chapter 26. Air Cleaning Devices.....	519
Chapter 27. Fans.....	531
Chapter 28. Air Distribution.....	547
Chapter 29. Air Duct Design.....	563
Chapter 30. Sound Control.....	583

SECTION VI. GENERAL

Chapter 31. Air Conditioning in the Treatment of Disease.....	597
Chapter 32. Railway Air Conditioning.....	609
Chapter 33. Industrial Air Conditioning.....	621
Chapter 34. Industrial Exhaust Systems.....	633
Chapter 35. Drying Systems.....	647
Chapter 36. Natural Ventilation.....	669
Chapter 37. Automatic Control.....	683
Chapter 38. Motors and Controls.....	703
Chapter 39. Piping and Duct Insulation.....	719
Chapter 40. Electrical Heating.....	741
Chapter 41. Radiant Heating.....	753
Chapter 42. District Heating.....	765
Chapter 43. Water Supply Piping and Water Heating.....	783
Chapter 44. Test Methods and Instruments.....	807
Chapter 45. Terminology.....	819