CONTENTS

Commitmen	t: ASHRAE's Theme for 1975 by W. Stephen Comstock
lost Chapte	er: Boston
Summaries	of Technical Sessions, Symposiums, Forums and Seminars
TECHNICA	L PAPERS:
2362	Development of an Improved Cooling Load Calculation Method by Dr. William Rudoy and Fernando Duran 19
2363	Comparison between Measured Computer-Predicted Hourly Heating and Cooling Energy Requirements for an Instrumented Wood-Framed Townhouse Subjected to Laboratory Tests by D.M. Burch, B.A. Peavy and F.J. Powell
2364	Heat Gain by Conduction through Exterior Walls and Roofs — Transmission Matrix Method by Dennis E.
2365	Energy Usage and Relative Utilization Efficiencies of Oil-, Gas-, and Electric-Heated Single-Family Homes by V.S. Manian and A. Juchymenko
2366	Determination of Individual Preferred Temperatures by D.A. McIntyre
2367	Interindividual Differences in Ambient Temperatures Preferred by Seated Persons by P.O. Fanger and G. Langkilde
2368	Effective Temperature (ET*) as a Predictor of Thermal Comfort by R.H. Rohles, R.B. Hayter and G. Milliken 146
2369	The Effect of Temperature on Preferred Air Velocity for Sedentary Subjects Dressed in Shorts by D.R. Burton, 157
2370	Effect of Changes in Ambient Temperature and Level of Humidity on Comfort and Thermal Sensations by H.G. Nevins, R.R. Gonzalez, Y. Nishi and A.P. Gagge
2371	Direct Measurement of Clothing Heat Transfer Properties During Sensible and Insensible Heat Exchange with Thermal Environment by Y. Nishi, R.R. Gonzalez and A.P. Gagge
2372	Determination of Odor Components in Tobacco Smoke: Design of Mixture to Simulate Odor by A. Dravnieks,
2373	On the Rehavior of High Velocity Air in Cylindrical Branch Take-Offs by C.M. Rodkiewicz and Isun-Yan Hsien . 213
2374	Pressure Drop in Flat-Oval Spiral Air Duct by J.W. Heyt and M.J. Diaz
2375	Emission of Asbestos Dust from Rotary Asbestos Heat Exchangers and Prototype of Home-Use Ventilator Legisland the Heat Exchanger by T. Tonomura, K. Matsuki and M. Tatsuoka
2376	Production of Air Flow and Comfort in Air-Conditioned Spaces by P.V. Nielsen
2377	Thermal Radiative Properties of Glass by C.K. Hsieh and R.W. Coldwey
2378	Effects of Surface Condition on Nucleate Boiling of Refrigerant-11 by H.J. Sauer, Jr., R.A. Medrow and A.M.
2379	Host Transfor in Finned-Tube Hot-Water Boilers by L. Block
2380	Transfer Functions for Crossflow Multirow Heat Exchangers by S.C. Bhargava, F.C. McQuiston and L.D. Zirkle . 294
SYMPOS	
BO-75-1	LATEST DEVELOPMENTS IN SMOKE AND FIRE CONTROL
	Smoke and Fire Control in Large Atrium Spaces by P.R. Decicco and R.J. Cresci
BO-75-2	OPTIMIZING THE PERFORMANCE OF EXISTING AIR-CONDITIONING SYSTEMS
	Energy Conservation in Existing Systems by G.W. Gupton, Jr
BO-75-3	ROTARY AIR-TO-AIR HEAT EXCHANGERS FOR ENERGY RECOVERY
	Leakage and Carry-Over in Rotary Air-to-Air Heat Exchangers as Determined by Microbiological and Tracer Gas Procedures by D.R. Fisher, H.N. Gawley and R.E. Chant
	Investigation of Frosting in Rotary Air-to-Air Heat Exchangers by D.W. Ruth, D.R. Fisher and H.N. Gawley 410

HUMAN FACTORS APPLICATIONS IN PRODUCT DESIGN
Human Factors Issues in Appliance Design by L.F. Hanes
OIL SEPARATORS
Separator Element Design and Application Technology by J.M. Clem
ACOUSTICAL DESIGN OF AIR-CONDITIONING SYSTEMS
Introduction to the Acoustical Design of Air-Conditioning Systems by M.J. Crocker
Aerodynamic and Acoustical Considerations in Duct Design and Ferofinance by Fin. Mileson, 498 Sessler
ADVANCES IN LUBRICANTS AND KNOWLEDGE OF SYSTEM REACTIONS
Alkylbenzenes as Refrigeration Oils by S.A. Olund
ENVIRONMENTAL CONSIDERATIONS FOR LABORATORY ANIMALS
Why Be Concerned about the Ventilation Requirements of Experimental Animals? by C. McPherson 539 Characteristics of the Research Animal Bioenvironment by Alvin F. Moreland 542 Animal Cage Room Dry-Bulb and Dw-Point Temperature Differentials by E.L. Besch 549 Influence of Room Air Distribution on Animal Cage Environments by J.E. Woods 559 System Design and Energy Conservation Considerations by R.L. Gorton 572
DEFROSTING AND PREVENTING FROST ON AIR-COOLING UNITS
Defrosting of Air Units in Central Systems by D.H. Niederer
SOCIETY BUSINESS:
Officers, Directors, Committeemen, Staff 609 Chapter Officers 1975-76 611 ASHRAE Technical Committees and Task Groups 613 ASHRAE Standard Project Committees 619 ASHRAE Intersociety Representatives 625 Society Presidents 625 ASHRAE Honorary Members 626 ASHRAE Past Meetings 626 ASHRAE International Associates 626 ASHRAE Honors and Awards 627 In Memoriam 1974/75 631 Bylaws 632 Volume 81 Index by Title 641 Volume 81 Index by Author 648

W.S. Comstock Editor ASHRAE Special Publications