

A 30-Year Index to A. S. R. E. Transactions

(By Title and Author)

THIS INDEX GIVES BY TITLE AND AUTHOR THE PRINTED PAPERS READ IN NATIONAL AND SECTIONAL MEETINGS OF THE AMERICAN SOCIETY OF REFRIGERATING ENGINEERS FROM DECEMBER, 1905, TO NOVEMBER, 1934, WITH THE ADDITION OF LEADING PAPERS PRESENTED FOR PUBLICATION IN REFRIGERATING ENGINEERING BUT NOT READ AT A MEETING. ITEMS RELATED TO NEWS, REVIEWS AND COMMITTEE ACTIVITIES ARE NOT INDEXED.

A

	Vol.	No.	Page
ABRAMS, DUFF A., Bibliography on Heat Transmission	8	2	150
ABSORPTION			
and Compression Machines, Efficiency of, HENRY TORRANCE, JR.	T1		126
Machines, Discussion of Method of Determining Capacity and Economy of, N. H. HILLER	7	1	58
Refrigerating Machines, Gas Formation in, Its Causes and Remedy, C. E. MCKELVY and A. ISAACS	4	5	447
Refrigeration with Solid Refrigerants, R. M. BUFFINGTON	26	3	137
System, House Cooling by the, DONALD B. KNIGHT	24	2	97
Type, Heat Operated Refrigerating Machines of the, ROBERT S. TAYLOR	17	5	136
Type of Household Refrigerating Machines, HUGH E. KEELER	12	8	269
Accidents in Refrigerating Plants, Avoidable, LOUIS BLOCK	T8		83
Accidents in Refrigerating Plants, JOHN E. STARR	3	5	5

A

	Vol.	No.	Page
Accumulators, Cold, E. S. H. BAARS	4	6	541
ACKERMAN, W. T., Rural Refrigeration	17	1	1
A Direct Expansion Calorimeter, J. L. GIBSON	24	4	206
Advertising, Engineer's Appraisal of Refrigeration	21	2	91
A Dynamometric Chart for Compressors, BERNARD C. OLDHAM	24	2	94
Aerodynamic Aspects of Air Conditioning, S. M. ANDERSON	26	4	181
Air Batteries as Applied to Refrigeration in New Zealand Meat Works, W. G. CROLL	9	5	158
Air Circulation—A Practical Storage Problem, WILLIAM J. LOHMAN	21	1	37
Air Compressors, Testing of High Speed, HARRY FELDBUSH	8	6	496

AIR CONDITIONING

BLOOM, S. C.	13	1	10
TERRELL, H. A.	11	11	388
Aerodynamic Aspects of, S. M. ANDERSON	26	4	181
As Applied to Cold Storage, and a New Psychrometric Chart, CLAUDE A. BULKELEY	23	2	97
In the Bakery, MAURICE OLCHOFF	25	1	9
And the Central Stations, A. D. MCLAY	25	3	129
For Comfort, Refrigeration in, MAURICE OLCHOFF	22	3	163
Commercial—Unit Equipment for Restaurants, Offices, Stores, W. C. GOODWIN	26	6	301
Cooling of Theatres and Public Buildings, FRED WITTENMEIER	9	4	115
Cooling Plant, New Cafeteria, Overcomes Space Limitations, JOHN A. SCHURMAN, JR.	28	4	194
Cooling System Develops Fur Storage Business, RALPH H. BUTZ	28	1	27
In the Theatre, L. L. LEWIS	14	2	55
Costs, Ice as a Factor in, CLIFFORD F. HOLSKE	25	3	133
The Economic Limitations of (Refrigeration Is Expensive), CLIFFORD F. HOLSKE	27	6	289
Elimination of Organic Products in, WILBUR K. SCHROEDER	26	6	294
Equipment on Residential and Commercial Power Circuits, D. W. MCLENEGAN and M. N. HALBERG	28	1	21
The Future of	20	4	215
How Will It Be Marketed, EVERETT R. RYAN	28	2	63
Human Beings, OTTO W. ARMSPACH	20	6	351
Industry Finds it Indispensable, TERRY MITCHELL	25	6	328
In the Making of Rayon, W. C. GILES	27	5	255
The Load Factor in, JOHN EVERETTS, JR.	28	3	134
A Means to Health, Comfort and Profit (Review)	27	2	105
The Origins of, DAVID L. FISKE	27	3	123
Problems in Bakery, W. W. REECE	27	4	192
Problems, Windows—and Their Relation to, W. W. SHAVER	26	3	133
Radio City Studios—Detail of Design and Operation of National Broadcasting Company's New Headquarters, O. B. HANSON	27	6	293
Railway, see F. L. SAHLMANN	27		
Recent Progress in, WILLIS H. CARRIER	21	3	187
Recirculation in Theatre Cooling, L. L. LEWIS	15	5	122

A GUIDE TO PUBLISHED TRANSACTIONS

TRANSACTIONS OF THE A. S. R. E.

Vol. 1	1905	Vol. 4	1908	Vol. 7	1911
" 2	1906	" 5	1909	" 8	1912
" 3	1907	" 6	1910	" 9	1913

JOURNAL OF THE A. S. R. E.

(Bi-Monthly. Except for the first volume, the numbers indicate the months as follows: 1—July, 2—September, 3—November, 4—January, 5—March, 6—May)

Vol. 1	1914-1915	Nov.-May	Vol. 5	1918-1919	July-May
" 2	1915-1916	July-May	" 6	1919-1920	"
" 3	1916-1917	"	" 7	1920-1921	"
" 4	1917-1918	"	" 8	1921-1922	"

REFRIGERATING ENGINEERING

(Monthly. Annual volumes, 9 through 13, semi-annual volumes thereafter; annual volumes run 1—July to 12—June, semi-annual at 1—January to 6—June or 1—July to 6—December)

Vol. 9	1922-1923	July-June	Vol. 19	1930	Jan.-June
" 10	1923-1924	"	" 20	1930	July-Dec.
" 11	1924-1925	"	" 21	1931	Jan.-June
" 12	1925-1926	"	" 22	1931	July-Dec.
" 13	1926-1927	"	" 23	1932	Jan.-June
" 14	1927	July-Dec.	" 24	1932	July-Dec.
" 15	1928	Jan.-June	" 25	1933	Jan.-June
" 16	1928	July-Dec.	" 26	1933	July-Dec.
" 17	1929	Jan.-June	" 27	1934	Jan.-July
" 18	1929	July-Dec.	" 28	1934	July-Dec.

A	Vol. No.	Page
Refrigeration in, LEE NUSBAUM.....	7	2 170
Restaurant, Developments in, EDWARD E. ASHLEY.....	28	5 237
And Refrigeration, Unit Coolers in, THOMAS W. CARRAWAY.....	24	4 225
The Small Job, C. E. SCOTT.....	23	1 15
Summer, of Residences, EUGENE D. MILENER.....	23	3 147
System for Passenger Trains, JAMES EDMUND BOYACK.....	22	2 83
Theory—Classroom Methods of Presentation, JOHN A. GOFF.....	25	1 14
In War Industries, Refrigeration in Relation to, J. I. LYLE.....	5	5 376
Air Conditions, Variation in—in its Relation to Comfort and Health, CHARLES S. LEOPOLD.....	26	1 15
Air Cooling and Conditioning, Temperature Regulation in, R. C. DAVIS.....	25	3 149
Air Cooling Surfaces, Performance of Extended, CHESTER J. SCANLAN.....	27	4 197
Air Cooling in a Telephone Exchange, REALTO E. CHERNE.....	23	4 211
Air Cooling, Thermodynamic Studies of, B. H. COFFEY.....	19	4 115
Allen Dense Air Refrigerating Machine, The, H. B. ROELKER.....	T2	52
ALLEN, R. C., and C. C. SHUTT, Two Speed Synchronous Motors.....	24	1 26
Aluminum Foil as a Basis of Insulation, MAX BREITUNG.....	22	1 11
Aluminum Foil as Truck Body Insulation, MAX BREITUNG.....	23	1 27
AMBROSIUS, EDGAR E. and REED, JOHN C., Volumetric Efficiency of a Vertical Single-Acting Ammonia Compressor.....	21	3 176
AMBROSIUS, EDGAR E., and JOHN C. REED, The Flow of Superheated Ammonia.....	19	2 45
AMMONIA		
and Other Substances, A New Equation of State Applied to, FREDERICK G. KEYES.....	1	1 9
Aqua, Properties of, Part I, THOMAS A. WILSON.....	10	7 248
Based on New Experimental Material, Equations for, FREDERICK G. KEYES.....	2	4 20
Composition and Testing of Commercial Liquid, E. C. MCKELVEY and C. S. TAYLOR.....	3	5 30
Composition Purification and Certain Constants of, E. C. MCKELVEY and C. S. TAYLOR.....	9	7 213
Compressor, Volumetric Efficiency of a Vertical Single-Acting, JOHN C. REED and EDGAR E. AMBROSIUS.....	21	3 176
Condenser Data, HENRY TORRANCE.....	5	1 27
Disintegration in Absorption Plants, H. DAN-NENBAUM.....	T4	222
Entropy Diagram for, VICTOR J. AZBE.....	4	4 373
Entropy Diagram for, J. H. H. VOSS.....	4	4 353
In Refrigerating Systems, What Becomes of? GEORGE L. REUSCHLINE.....	5	3 161
	6	2 131
Latent Heat of Pressure Variation of Liquid, N. S. OSBORNE and M. S. VAN DUSEN.....	4	2 167
Latent Heat of Vaporization of, N. S. OSBORNE and M. S. VAN DUSEN.....	4	2 172
Measurement of Specific Heat of Superheated, E. F. MUELLER.....	9	1 1
Physical Properties of Anhydrous, LIONEL S. MARKS and F. W. LOOMIS.....	T8	177
Properties of Saturated and Superheated, WILLIAM E. MOSHER.....	T8	214
Ratio of Specific Heats and Joule-Thomson Coefficient for, C. S. CRAGOE.....	12	5 131
	12	8 275
Specific Volume of Anhydrous Liquid, C. S. CRAGOE and D. R. HARPER, 3rd.....	7	2 113
Superheated Region and Vapor Pressure of Liquid Ammonia, Isometrics of, FREDERICK G. KEYES.....	7	5 371
Synthesis, Some Notes on, FREDERICK POPE..	12	7 209
Synthetic, J. R. POWELL.....	12	6 180
Total Heat Diagrams for, C. H. MEYERS and E. F. MUELLER.....	7	6 419

A	Vol. No.	Page
Vapor Pressure of, C. H. MEYERS, C. S. CRAGOE and C. S. TAYLOR.....	6	5 307
The Vapor Pressure of—Ammonium Thiocyanate as an Absorbent, LEWIS H. D. FRASER, JR.....	24	1 20
Vapor, Specific Heat of Superheated, N. S. OSBORNE, H. F. STIMSON, T. S. SLIGH, JR., and C. S. CRAGOE.....	10	5 145
Vapor, Specific Volume of Saturated, C. S. CRAGOE, E. C. MCKELVEY and G. F. O'CONNOR.....	9	8 239
Vapor, Specific Volume of Superheated, C. H. MEYERS and R. S. JESSUP.....	11	10 345
Ammonium Thiocyanate as an Absorbent—The Vapor Pressure of Ammonia, LEWIS H. D. FRASER, JR.....	24	1 20
A Modern System of Beer Production, DR. L. NATHAN.....	26	4 177
Analysis of the Ejector Cycle, PETER KALUSTIAN.....	28	4 188
An Anemometer for Measuring Low Air Velocities, W. V. HUKILL.....	28	4 197
ANDREWS, DONALD H., RALPH K. WITT and ELIZABETH CRIGLER, Production of Low Temperatures.....	19	6 177
ANDREWS, J. W., Precooling of Fruits and Vegetables.....	11	4 143
ANDERSON, C. E., A New Rotary Pump.....	26	3 143
ANDERSON, S. M., Aerodynamic Aspects of Air Conditioning.....	26	4 181
ANDERSON, O. A., Packing House Refrigerating Operations at Maximum Efficiency.....	13	3 85
Ammonia Condenser Design.....	10	4 115
A New Automatic Welding Process, T. M. RUDE.....	25	5 247
A New Rotary Pump, C. E. ANDERSON.....	26	3 143
Application of Refrigeration, Problems in the, D. B. HENRY.....	17	6 184
Application of Refrigeration to Heating and Cooling of Homes, A. R. STEVENSON, JR., F. H. FAUST and E. W. ROESSLER.....	23	2 83
ARCHER, A. W., Refrigeration in the Bakery... ..	4	245
ARMSPACH, OTTO W., Air Conditioning Human Beings.....	20	6 351
Arsenal, Refrigerating Equipment for Edgewood, J. O. SCHULTZ.....	6	1 46
ASHLEY, EDWARD E., Developments in Restaurant Conditioning.....	28	5 237
ASPINWALL, C. A., Cold Storage for Furs and Fabrics.....	12	7 242
A.S.R.E. Constitution and By-Laws.....	28	6 327
A Summary of the "By-Pass" Patents, EUGENE H. PURDY.....	25	5 263
A Survey of Ice for Air Cooling Applications, ROBERT T. BRIZZOLARA.....	23	3 161
Atmospheric Dehumidifying, J. I. LYLE.....	T8	127
Automatic Control, JOHN H. FITZPATRICK.....	22	5 316
Automatic Control of Refrigerators in Cooling Units, THOMAS W. CARRAWAY.....	22	2 99
Automatic Fifty-Ton Refrigerating Plant for Processing Cotton, Complete, F. L. FAIRBANKS.....	12	1 5
Automatic Refrigerant Control, C. P. GOREE, JR.....	20	5 295
Automatic Refrigerating Equipment, Safety, J. C. GOOSMAN.....	9	12 359
Automatic Refrigerating Machine, The, VAN RENSSELAER H. GREENE.....	T3	88
Automatic Refrigeration, Electricity in, WILLIAM DEANS.....	10	9 335
Automatically Controlled Refrigerating Plants, Notes on the Design of, WILLIAM J. LEWIS, JR.....	10	7 243
AYRES, R. W., Design of a Low Temperature Storage Cabinet.....	19	6 191
AYRES, R. W., and J. G. DEREMER, A Hermetically Sealed Refrigerating Machine Using the Mercury Compressor.....	14	6 169
AZBE, VICTOR J., Economy of the Refrigeration Power Plant.....	4	4 368
Entropy Diagram for Ammonia.....	4	4 373
Refrigerating Plant Efficiency.....	5	5 337
Water Cooling System Efficiency.....	11	9 313

B

B

	Vol. No.	Page
BAARS, ERNST S. H., A Review of the Feed Systems of Refrigerating Coils and Their Respective Advantages	T9	216
Cold Accumulators	4	541
New Methods for Applying Refrigeration ..	7	14
BACK, E. A., and R. T. COTTON, Effect of Cold Storage Upon Clothes Moths.....	13	12 365
Bacteria as Affected by Temperature, S. C. PRESCOTT	23	2 91
Bacteria, Ozone and	20	1 37
Bacterial Activity in Fish.....	20	3 176
Bacteriological Contents of Can, Plate and Natural Ice Under Various Conditions, The Relative, JOHN C. SPARKS.....	T4	59
BAER, A. H., Circulation in Flooded Systems. {	3	6 5
Notes on Marine Refrigeration.....	4	1 1
Safety in Refrigeration.....	5	5 383
Truck Body Refrigeration.....	22	6 383
BAIRD, WM. F., Truck Body Refrigeration....	20	1 16
BAKER, C. THOMAS, Railway Car Icing Stations The Use of Physical Instruments in Refrigerating Plant Operation	4	106
Precooling of Fruits and Vegetables before Shipment	19	1 3
Dairy Industry Is Based on Refrigeration...	9	11 333
Gas Engine Power in the Refrigerating Plant	25	6 318
BAKER, I. C., Comfort, Health and Refrigeration	26	2 65
Baker, Refrigeration for, W. W. REECE.....	25	6 308
Bakery, Air Conditioning in the, MAURICE OLCHEFF	19	6 174
Bakeries, Application of Refrigeration in Milwaukee, H. L. FISCHER.....	25	1 9
Bakery, Refrigeration in the, A. W. ARCHER...	9	10 297
Bakery, Refrigeration in the, A. R. FAYED....	22	4 245
Bakery, Refrigeration and Air Conditioning in the, CHARLES A. GLABAU	21	4 251
Baking Industry, Refrigeration as Applied to the, W. W. REECE	11	1 18
BALL, P. DE C., A Modern Railroad Terminal and Cold Storage Warehouse.....	10	6 205
Steel Pipe vs. Wrought Iron Pipe in Refrigerating Work	15	3 71
Balsa, M. E. PENNINGTON.....	T7	70
Banana Industry, Refrigeration Has Built the, C. F. GREEVES-CARPENTER.....	6	4 256
BARBER, EVERETT M., Bearing Lubrication Analysis—Handling of Performance Data by Correlation with Hydrodynamic Theory...	27	2 65
BARNES, HOWARD T., Ice Engineering.....	25	4 202
BARNHURST, H. C., Pulverized Coal for Boiler Firing	16	4 93
BARNUM, C. L., The Interrelation of Sales and Profits	7	3 232
BATES, P. K., and M. E. HIGHLANDS, The Determination of Storage Conditions—Meat Refrigeration, Its Literature and Methods of Analysis	15	1 15
BEAMENSBERFER, J. S., and A. J. SELER, Research Administration — Coordination of Research and Engineering with Production and Selling of Refrigerating Machinery and Equipment	27	6 299
Bearing Design, Influence of Shaft Deflection upon, H. A. S. HOWARTH.....	27	4 177
Bearing Lubrication Analysis—Handling of Performance Data by Correlation with Hydrodynamic Theory, EVERETT M. BARBER ..	19	5 146
Bearings, Friction of Babbitt, Roller and Ball, E. R. MAURER and L. E. A. KELSO (Review)	25	4 202
BECKER, VICTOR H., The Ice Factory of the Future	23	2 105
Beer Production, A Modern System of, DR. L. NATHAN	T5	71
BEHRMAN, A. S., and O. A. DECELLE, Developments in Water Treatment.....	25	4 177
The Raw Material of the Ice Plant—Water..	17	2 55
BELDING, L. A., Transporting Refrigerants....	13	3 92
BELING, EARL, and H. J. MACINTIRE, Performance Tests on a Flooded Type Atmospheric Ammonia Condenser.....	15	5 130
	10	3 87

	Vol. No.	Page
BELSHAW, C. F., Broken Ice Refrigeration.....	16	3 67
Refrigerator Icing Methods	19	1 12
Ice Baskets for Domestic Refrigerations....	20	5 291
Broken Ice Show-Case Cools by Conduction	21	6 425
Domestic Ice Refrigeration—New Trends in Box Design	26	1 28
Belt Drives, Multiple V, F. J. GIEGER.....	18	3 77
Belts for the Transmission of Power, Leather, ROY C. MOORE.....	18	2 51
BENNIS, S. Electric Current Rates for Refrigerating and Ice Making Plants.....	8	2 111
BERESTNEFF, A. A., Mechanism of Moisture Absorption in Insulation.....	23	6 343
Radiant Heat and the Psychrometric Chart..	27	2 80
BERGDOLL, J. G., and A. W. RUFF, Solid Carbon Dioxide Refrigeration Control.....	23	6 347
BERRY, CHARLES W., What Does the Refrigerating Engineer Need to Know?.....	15	2 41
BICHOWSKY, F. R., Requirements for Dichlorodifluoromethane	21	3 177
Bids for Ice-Making and Refrigerating Machinery, The Comparison of, THOMAS SHIPLEY	T3	151
Binary Refrigeration, Experiments With, EDGAR PENNEY	T2	64
BIRDSEYE, CLARENCE, Corrugated Fibreboard Shipping Containers	19	3 75
Frozen Perishable Products.....	6	173
Preservation of Foods by New Quick-Freezing Methods	25	4 185
Blast Furnaces, Refrigeration Applied to Air Supply for, BRUCE WALTER.....	T4	227
BLOCK, LOUIS, A Suggestion to Prevent the Loss of Ammonia at Stuffing Boxes.....	3	1 16
Avoidable Accidents in Refrigerating Plants	T8	83
Cost Reduction of Ice-Making Plants.....	T5	31
Fuel Economy and How to Attain It.....	T5	185
The Evaporator and Its Use in the Manufacture of Can Ice.....	T1	102
Suggestions as to Method for Testing Ammonia Condensers	7	1 61
BLOOM, S. C., Air Conditioning.....	13	1 10
Brine Spray Refrigeration.....	8	4 308
Practice in Refrigeration and Ventilation...	17	6 186
The Cooling and Ventilation of the Minneapolis Auditorium	13	10 295
Refrigeration's Next Ten Years.....	19	5 141
Boiler Development, An Outline of, HOSEA WEBSTER	10	10 367
Boiler Firing, Pulverized Coal for, H. C. BARNHURST	7	3 232
Boiler Room Economies, F. E. MATTHEWS....	2	5 5
Boiling Points of Water in Brine Solutions....	22	3 176
BOJER, H. L., Transient Flow of Heat Through Insulation	20	1 23
BOOTH, W. K., Vending System for Ice.....	23	5 289
BORGER, MARTIN R., Rural Refrigeration.....	19	2 37
BORODIN, NICHOLAI, Present Status of the Refrigerating Industry in Russia.....	6	3 190
Boulder Dam, Cooling Concrete at, H. N. ROYDEN and A. G. ROACH	28	1 11
BOWEN, JOHN T., The Danger Point in Refrigeration	19	1 23
BOYACK, JAMES EDMUND, Air Conditioning System for Passenger Trains.....	22	2 83
BOYDEN, H. C., Concrete Brine Tanks.....	7	5 390
BRACKEN, J. H., Insulation of Roof Structures Study of Heat Transmission in Refrigerator Cars	9	12 373
The Application of Insulation to Domestic Refrigerators	16	3 82
The Refrigerator Car—Retrospective and Prospective	16	5 132
Vapor Proofing of Refrigeration Insulation..	T9	137
BRADFORD, LOUIS J., and CHARLES C. DAVENPORT, Characteristic Curves for Fluid Film Lubricated Journal Bearings.....	15	4 103
BREITUNG, MAX, Aluminum Foil as a Basis of Insulation	24	6 343
Aluminum Foil as Truck Body Insulation...	22	1 11
Brewery Equipment, Chromium Steel for, H. D. EDWARDS	23	1 27
	26	4 192

B			B				
	Vol.	No.	Page		Vol.	No.	Page
BRINE							
Brewery, Refrigeration in the, FRED OPHULS..	25	2	73	BUTZ, RALPH H., Cooling System Develops Fur	28	1	27
Brewery, Refrigeration in the, E. H. PAULSEN	25	6	319	Storage Business			
Brewing, Refrigeration the Control Factor in,	26	2	70				
A. B. STICKNEY.....							
Brewing—The Present Situation, HERMAN A.	26	5	251				
ROSENBUSCH							
BRIGHT, GEORGE B., Comparative Tests of	13	11	323				
Household Machines							
Presidential Address	17	1	19				
Safe Practices in Refrigerating Plants.....	23	1	14				
Comfort Cooling with Ice.....	25	1	18				
Agitation and Circulation, Modern Propellor	8	2	127				
Design for, E. A. BURROWS.....							
Spray Refrigeration, S. C. BLOOM.....	8	4	308				
Physical Properties of, E. F. MUELLER.....	6	1	25				
Properties of Refrigerating, R. S. JESSUP...	12	6	171				
Brine Properties, New, W. POHLMANN.....	23	1	28				
Brines, Refrigerating, Viscosity of, DALE W.	27	6	306				
KAUFMANN							
Brines, Heat Content for Frozen Sodium and	22	3	166				
Calcium, R. S. JESSUP.....							
BRIZZOLARA, R. T. New Car Conditioning Sys-	22	4	240				
tem Uses Ice.....							
A Survey of Ice for Air Cooling Applica-	23	3	161				
tions							
The Use of Ice—Past and Future.....	25	6	330				
BRIZZOLARA, R. T. and SOARES, E. C., Modern	21	2	101				
Ice Plant Economics							
BROAS, RICHARD S., Rotary Compressors for	1	4	13				
Refrigeration and Other Purposes.....							
Broken Ice Refrigeration, C. F. BELSHAW....	16	3	67				
Broken-Ice Show Case Cools by Conduction,	21	6	425				
CHARLES F. BELSHAW							
BROMLEY, C. H., Recent Trends in the Practice	11	5	159				
of Lubricating Prime Movers.....							
BROWN, J. RUSSELL and HAROLD L. POPE, The	16	1	11				
General Design of Refrigerator Cabinets of							
the Ice Box, Household Type.....							
BROWNE, MILTON W., Humidity and Air Circu-	21	1	27				
lation in Cold Storage.....							
BROWNE, R. L., Thermit Welded Pipe Joints...	7	6	452				
BRYSON, A. E., What the Refrigerating Engi-	14	3	89				
neer Should Know About Investment							
Banking							
BUCKINGHAM, EDGAR, Research in Heat Trans-	11	3	91				
mission							
BUDD, JOSEPHINE E., Operation of Refrigeration	26	1	14				
on Shipboard							
BUFFINGTON, R. M., Absorption Refrigeration	26	3	137				
with Solid Refrigerants.....							
Building Design, New Type Ice Plant, C. R.	15	5	119				
NEESON							
Building Ice Skating Rinks, MARTIN R. CAR-	21	5	334				
PENTER							
Buildings, Cooling Systems of, A. M. FELDMAN	8	5	377				
BULKELEY, CLAUDE A., Air Conditioning as Ap-	23	2	97				
plied to Cold Storage, and a New Psychrom-							
etric Chart							
New Tables—Mixtures of Air and Saturated	25	1	27				
Water Vapor							
BURDICK, J. N., R. C. TIMM, L. I. DANA, and	12	12	387				
A. C. JENKINS, Refrigerants—Thermody-							
namic Properties of Butane, Isobutane and	9	9	275				
Propane							
BURHORN, EDWIN, Cooling Towers.....							
BURKHART, L. H., Shell and Tube Type Ammo-	12	1	1				
nia Condensers, Design and Methods of							
Construction							
BURKE, F. X., Frozen Foods Have an Alluring	25	6	314				
Future							
BURKS, DANA, JR., Chemistry of Water Treat-	22	4	247				
ment							
BURROWS, E. A., Modern Propellor Design for	8	2	127				
Brine Agitation and Circulation.....							
BURTON, E. F., and GILBERT A. YOUNG, Insula-	10	9	345				
tion							
Application of Refrigeration Processes to the	11	3	83				
Production of Natural Gasoline.....							
Educational and Research Activity in Refrig-	15	4	93				
eration							
The Small Town Ice Manufacturing Plant..	11	7	264				
Business and the Sovereign State—Refrigera-	28	4	175				
tion under the NRA, CROSBY FIELD							
Butter and Cheese, Refrigeration of, C.E. GRAY	T2		90				
“By-Pass” Patents, A Summary of the, EUGENE	25	5	263				
H. PURDY							

C

Calcium Chloride from Brine by Ammonia, The	T7		180
Non-Precipitation of, MORGAN B. SMITH..			
Calorimeter, An Aneroid,, H. C. DICKINSON and	1	3	5
N. S. OSBORNE			
Calorimeter, A Direct Expansion, J. L. GIBSON	24	4	206
CANDY, A. M., Arc Welding Applied to Refrig-	7	4	259
erating Machinery			
Candy Manufacture, Refrigeration An Essen-	20	4	219
tial In, TRESPER CLARKE.....			
Capitalism, How Can It Reorganize to Con-	28	2	81
sume, HERBERT W. HESS			
CARBON DIOXIDE			
A Characteristic Chart for Solid, Liquid and	20	1	33
Gaseous			
Cycles, A. B. STICKNEY	24	3	334
Equipment, Recent Improvements in, J. C.	16	1	1
GOOSMANN and F. R. ZUMBRO.....			
European Manufacturer Inspects Plants in	21	4	296
U. S.			
Factors Governing the Liquefaction of, J. C.	14	1	13
GOOSMANN			
Hydrated Solid, WALTER S. JOSEPHSON.....	19	1	25
Gas for Solidification, C. L. JONES	23	1	17
Measurement of, in a Refrigeration System,	27	4	195
B. H. JENNINGS.....			
Pressure of—Total Heat Diagram for, H. J.	8	3	211
MACINTIRE			
The Present Status of the Thermodynamic	3	4	17
Properties of, ARTHUR W. KENNEY and			
FREDERICK G. KEYES.....			
As a Refrigerant, Solid, F. W. RABE	19	5	143
Refrigerating Methods, The Progressive De-	14	6	188
velopment of, J. C. GOOSMANN.....			
In Small Capillaries, Critical Temperature	15	5	125
Measurements on, H. T. KENNEDY and			
CYRIL H. MEYERS	26	5	245
Thermodynamics—Review of Research Re-	26	6	304
lated to CO ₂ , J. C. GOOSMANN	27	1	27
The Vapor Pressure of Liquid, C. H. MEY-	13	6	180
ERS and M. S. VAN DUSEN.....			
Vapor, The Design of Equipment for Measur-	15	6	157
ing the Specific Volume of, C. H. MEYERS..			
Carbon Dioxide, Solid—New Concern to Fea-	21	5	356
ture Equipment for.....			
Carbon Dioxide, Solid, from Mexican Wells,	21	3	171
JAMES W. MARTIN	26	4	190
Carbon Dioxide, Solid, Comment on Duevel	22	4	260
Article on, J. C. GOOSMANN.....			
Carbon Dioxide, Solid, Power Requirements	22	6	388
for the Manufacture of, F. W. RABE			
Carbon Dioxide and Its Solidification, CHARLES	22	1	18
O. DUEVEL, JR.	22	2	90
Carbonic Acid Refrigerating Machine, The, J.	T1		112
C. GOOSMANN			
Carbonic Anhydride Refrigerating Machine,	5	3	153
PETER NEFF	5	4	266
Car Conditioning System Uses Ice, R. T. BRIZ-	22	4	240
ZOLARA			
CARPENTER, MARTIN R., Building Ice Skating	21	5	334
Rinks			
Ice Skating Rinks	4	2	204
Requirements of Refrigerating Plants of Less	T1		157
Than One Ton Capacity.....			
CARRAWAY, THOMAS W., Automatic Control of	22	2	99
Refrigerants in Cooling Units.....			
Unit Coolers in Refrigeration and Air Condi-	24	4	225
tioning			
CARRIER, WILLIS H., Recent Progress in Air	21	3	187
Conditioning			

	C	Vol. No.	Page
CARRIER, W. H., and DANIEL C. LINDSAY, The Temperature of Evaporation of Water Into Air	11	7	241
and WATERFILL, R. W., Comparison of Thermodynamic Characteristics of Various Refrigerants	10	12	415
Centrifugal Compression as Applied to Refrigeration	12	8	253
The Thermal Engineer, (Presidential Address)	15	1	6
CARY ALBERT A., Oily Waters and Their Treatment	T2		188
CAVERLY, W. R. and FLENNER, A. L., The Determination of Moisture in Liquid Sulfur Dioxide	21	5	344
Central Station Refrigeration, GEORGE A. HORNE	21	3	183
Central Stations, Air Conditioning and the, A. D. MCLAY	25	3	129
Centrifugal Compression as Applied to Refrigeration, W. H. CARRIER	12	8	253
Centrifugal Compressors, The Heat Balance Method of Testing, M. G. ROBINSON	12	10	327
CHAMBERLIN, GEORGE E., Motor Driven Raw Water Ice Plant	5	2	97
CHAPPELL, E. L., R. P. RUSSELL, and J. K. ROBERTS, Corrosion in the Refrigerating Industry	13	7	209
Characteristic Chart for Sulfur Dioxide	21	1	33
Characteristic Curves for Fluid Film Lubricated Journal Bearings, LOUIS J. BRADFORD and CHARLES C. DAVENPORT	24	6	343
Charter Members of the A.S.R.E.	28	6	318
Checking Corrosion in Brine Tanks, WILLIAM P. MIGEOT	23	6	365
Chemistry in Food Freezing—Storage, JAMES C. IRWIN, JR.	21	5	348
Chemistry of Water Treatment, DANA BURKS, JR.	22	4	247
CHERNE, REALTO E., Air Cooling in a Telephone Exchange	23	4	211
Chicago Fair, Refrigeration at the	25	6	339
Chromium Steel for Brewery Equipment, H. D. EDWARDS	26	4	192
CHURCHILL, J. B., Household Refrigeration—The Evaluation of the Fractional Ton Refrigerating Machine	15	3	67
Misleading Propaganda on Refrigerants	21	4	269
New Refrigerants	19	2	60
New Tables of Refrigerant Gases	26	2	85
CHURCHILL, J. B. and E. T. WILLIAMS, Gas Leakage, Hazards of as Affected by Ventilation (with special reference to methyl chloride)	25	5	256
Citrus Industry, Refrigeration in the, C. F. GREEVES-CARPENTER	28	2	66
CLARK, GEORGE H., A New Type of Steam Safety Valve	3	1	19
CLARKE, TRESPER, Refrigeration An Essential In Candy Manufacture	20	4	219
Clearance Volumes, An Instrument for Measuring, H. C. DICKINSON	7	6	460
Climatic Charts for Refrigerating Engineers ..	19	1	17
Climate in the United States, OTTO W. ARMSPACH	24	5	273
COCKRELL, F. M., The Field for Cooperation in the Development of Electric Refrigeration ..	18	3	78
COFFEY, B. H., Thermodynamic Studies of Air Cooling	19	4	115
COFFEY, B. H. and G. S. DAUPHINEE, Spray Nozzle Cooling Theory and Practice	8	3	177
and GEORGE A. HORNE, A Theory on Cooling Towers Compared with	1	1	78
Results in Practice	2	6	6
	3	3	32
	7	3	173
	11	6	187
Coils and Their Respective Advantages, A Review of the Feed Systems of Refrigerating, ERNEST S. H. BAARS	T9		216
COLD STORAGE			
Air Conditioning as Applies to, CLAUDE A. BULKELEY	23	2	97
Defining Humidity for Refrigerated, MARTIN HIRSCH	19	4	113

	C	Vol. No.	Page
Industry Today, FRANK A. HORNE	19	4	105
for Furs and Fabrics, C. A. ASPINWALL	12	7	242
Humidity and Air Circulation, MILTON W. BROWNE	21	1	27
Industries, Scientific Problems of, W. B. HARDY	6	3	201
Industry, The Effect of the War Upon the, I. C. FRANKLIN	6	4	237
by Means of Ice, MADISON COOPER	T3		45
Methods a Means to Better World Provisioning, Improved, F. E. MATTHEWS	5	6	416
Operation Data, GEORGE A. HORNE	13	6	177
and Our Food Supply, FRANK A. HORNE ..	11	12	429
Plants, The Comparative Value of Direct and Indirect Refrigeration for, NELSON J. WAITE	T5		141
Plants, European, ARTHUR W. EWELL	23	5	284
Plant Utilizing Exhaust Steam, Description of a HENRY TORRANCE, JR.	T2		82
Temperatures and Arrangement of Cold Storage Warehouses for Handling All Classes of Merchandise, WALTER L. HILL ..	T5		136
The Bronx Terminal Market, JOSEPH ECKERSLEY	13	9	275
Upon Clothes Moths, Effect of, E. A. BACK and R. T. COTTON	13	12	365
Warehouse, A Modern Railroad Terminal and, P. DE C. BALL	15	3	71
Warehouse, as a Fire Hazard, JOSEPH B. FINNIGAN	T5		34
Warehouse Construction, Fireproof, JOHN E. STARR	T3		132
and Warehouse Refrigeration, W. E. ZIEBER and J. C. CONSLEY	25	1	29
COLE, DONALD, Power and Labor Requirements of Detroit Type Ice Plant	5	2	110
COMFORT COOLING			
With Ice, GEORGE LANGE	24	1	31
With Ice, Progress During 1932 in	24	5	265
With Ice During 1932, GEORGE BRIGHT	25	1	18
In a Refrigerating Plant, R. H. SMITH	26	3	152
On Wheels, F. L. SAHLMANN	27	5	233
(See Air Conditioning)			
Comfort, Health and Refrigeration, I. C. BAKER ..	25	6	308
Commercial Air Conditioning—Unit Equipment for Restaurants, Offices and Stores, W. C. GOODWIN	26	6	301
Commercial Applications are Legion	25	6	326
Commercial Cooling Units, F. E. STEWART	21	1	21
Commercial Unit, Standard Rating for the Small, JOHN R. WYLLIE, JR.	22	1	25
Compound Ammonia Compression, GEO. A. HORNE	8	4	245
	8	6	455
Compound Compression—Review of Theory and Design from Viewpoint of German Practice, HANS FREUND	25	4	189
COMPRESSION			
and Absorption Machines, Efficiency of, HENRY TORRANCE, JR.	T1		126
Compound Ammonia, GEORGE A. HORNE	8	4	245
	8	6	455
Costs, Oil Engine, C. R. NEESON	23	3	168
Machines, Ammonia, Horse Power per Ton of Refrigeration of, THOMAS SHIPLEY	T2		154
Machines, Performance of Ammonia, CHARLES EDWARD LUCKE	T4		138
Refrigerating Cycle, The, W. H. MOTZ	9	9	267
Refrigerating Machine, Design, Construction and Operation of a 1,000-Ton Ammonia, F. L. FAIRBANKS	2	1	5
	3	2	29
Refrigerating Machine, Heat Waste in the Ammonia, J. H. H. VOSS	9	8	249
COMPRESSOR(S)			
A 500-Ton Speed Booster Ammonia, F. L. FAIRBANKS	3	3	5
	4	3	298
Ammonia, Tests of a Two Stage, Double Inlet, GEORGE A. HORNE and ALFRED W. OAKLEY	19	6	181
Ammonia, and Tubular Condensers, Performance of Single Acting Simple, GEORGE A. HORNE	10	1	14

C

COMPRESSORS—Continued

	Vol.	No.	Page
Ammonia, The Practical Value of Indicating, W. EVERETT PARSONS	T1		137
and Tubular Condensers, Performance of Single Acting Simple Ammonia, GEORGE A. HORNE	9	5	143
An Oscillating Ammonia, H. J. MACINTIRE ..	9	8	252
Capacity and Power, Effect of Speed on, L. HOWARD JENKS	12	9	201
Dynamic Starting Performance of Direct Motor Driven, W. E. JOHNSON	28	{ 3 5	136 244
Safety Devices, Ammonia, PETER NEFF	T8		101
Tests on a Rotary Ammonia, H. J. MACINTIRE	11	9	325
The High-Speed Ammonia, THEODORE O. VILTER	T7		96
Water Jackets, E. N. FRIEDMANN	T7		141
Ammonia, Advantages of Operating, by Aid of Thermometers, E. N. FRIEDMANN	T7		31
Ammonia, Clearance and Its Effect on the Volumetric Efficiency of, V. R. H. GREENE	T6		111
Ammonia, Clearance in Single-Acting and Double-Acting, THOMAS SHIPLEY	T6		131
Ammonia, Water Jacketing of, R. L. SHIPMAN	T2		117
Feather Valve, of Three Types, Construction and Operation, F. L. FAIRBANKS	9	3	85
Flywheel Requirements for Unbalanced Air and Ammonia, C. W. CUTLER	12	3	75
for Refrigeration and Other Purposes, Rotary, RICHARD S. BROAS	1	4	13
High Speed Ammonia, C. R. NEESON	3	5	15
in Mechanical Refrigeration, Rotary, WALTER G. E. ROLAFF	16	5	127
Recent Improvements in The Mercury Gas—Based on the Archimedes Screw Pump, J. G. DE REMER and G. W. DUNHAM	26	6	307
Rotary Ammonia, Comparative Tests of Lubricants for, E. J. TAVANLAR	19	2	56
The First Ten Years of Horizontal High Speed Ammonia, L. H. ROLLER	13	1	1
The Design of, BERNARD C. OLDHAM	20	2	83
A Dynamometric Chart for, BERNARD C. OLDMAN	24	2	94
Unloaders for Motor Driven, G. E. SWIFT ..	23	4	215

CONDENSER (S)

Data, Ammonia, HENRY TORRANCE	{ 1 2	4 6	5 33
Design, Ammonia, OSCAR A. ANDERSON	10	4	115
Economic Balances in the Design and Operation of the Ammonia, T. K. SHERWOOD ..	13	8	253
Heat Transfer in a Multitube-Multipass Ammonia, A. P. KRATZ, H. J. MACINTIRE, and R. E. GOULD	17	3	79
Performance Tests on a Flooded Type Atmospheric Ammonia, H. J. MACINTIRE and EARL BELING	10	3	87
Test of a Vertical Shell and Tube Type Ammonia, FRANK R. ZUMBRO	13	2	49
Tests, Double Pipe Cooler and, F. C. STEWART and A. D. HOLLAND	17	1	5
The Evaporative, J. BEAUMONT SPENCER	T7		151
A Water Distributing Device for, GEORGE M. KLEUCKER	7	1	22
Ammonia, FRED OPHULS	{ 1 2	1 4	47 48
Design and Methods of Construction, Shell and Tube Type Ammonia, L. H. BURKHART	12	1	1
Performance of Single Acting Simple Ammonia Compressor and Tubular, GEORGE A. HORNE	9	5	143
Tubular, Performance of Single Acting Simple Ammonia Compressor and, GEORGE A. HORNE	10	1	14
Constants in the Theory of Refrigeration, Practical, CHARLES JONSSON	T6		90
Constants of Refrigeration, The Work of the Bureau of Standards on, H. C. DICKINSON	2	5	46
Constants Used by the Refrigerating Engineer, The Numerical Values of Some, FREDERICK G. KEYES	8	6	505
Containers, Corrugated Fibreboard Shipping, CLARENCE BIRDSEYE	19	3	75

C

CONDENSER(S)

	Vol.	No.	Page
Containers, Notes on Small Insulated, M. E. PENNINGTON	8	5	393
Control, Temperature-Difference, and Defrosting System, Three Pressure Refrigerating, GEORGE HILGER	11	8	293
Control Valves for Refrigerating Fluids, H. T. LANGE	26	1	17
Conveying Machinery in the Refrigerating Industry, EDWIN McQUEEN	6	5	344
Cooler and Condenser Tests, Double Pipe, F. C. STEWART and A. D. HOLLAND	17	1	5
Coolers and Condensers of the Double Pipe Type, Heat Transfer in, R. L. SHIPMAN ..	T3		203
Cooling Passenger Cars—A Review of Practice and Discussion of a New System Using Ice, WALLACE HERDLEIN	25	5	235

COOLING TOWERS

BURHORN, EDWIN	9	9	275
HART, B. FRANKLIN, JR.	T2		177
A Theory of, Compared with Results in Practice, B. H. COFFEY and GEORGE A. HORNE	{ 1 2 3 7 11 9	{ 1 6 3 3 6 6	{ 78 6 32 173 187 169
Design of, C. S. ROBINSON	6	3	178
for Condensers, Advantages of Different Constructions of, J. B. HARRY	10	6	201
Operation, Analysis of, C. S. ROBINSON	22	5	314
Cooling Tower Economy, J. BARTON HARRY ..	28	1	11
Cooling Concrete at Boulder Dam, H. N. ROYDEN and A. G. ROACH	26	5	254
Cooling Unit, New Brine—Swiss Firm Designs Compact System for Commercial Purposes	21	1	21
Cooling Units, Commercial, F. E. STEWART ..	20	6	361
Cooling With Portable Units, D. F. KEITH ..	20	2	107
COOPER, A. H., Latent Heats of Common Foods	T3		45
COOPER, MADISON, Cold Storage by Means of Ice	13	8	249
Cork Buildings, Reinforced, JUNIUS H. STONE			

CORROSION

Brine Pipe, F. N. SPELLER	4	2	220
Committee, Reports of	{ 12 13 14 16	{ 12 2 6 1	{ 423 64 173 22
Factors and the Electrochemical Theory, A Study of, FRANK N. SPELLER	12	2	58
In Concrete Buildings and Pipe Lines, Recent Developments in the Study of, MORGAN B. SMITH	2	5	25
In Refrigerating Systems, Control of, F. N. SPELLER	8	3	216
In Refrigerating Systems, MORGAN B. SMITH	T8		155
In Refrigerating Systems, The Prevention and Retardation of, N. B. ORNITZ	13	2	64
In the Refrigerating Industry	14	6	173
In the Refrigerating Industry, R. P. RUSSELL, J. K. ROBERTS, and E. L. CHAPPELL	13	7	209
Prevention, Practical Methods in, GUY V. THOMPSON	19	3	87
Problems in Refrigerating Systems, A. S. CUSHMAN	T6		58
Retarding (Final Committee Recommendations)	16	1	22
The Protection of Refrigerating Apparatus Against, MORGAN B. SMITH	T7		106
Cost Study of the "Unit" vs. "Central" System, CHARLES STILLMAN	22	3	155
Cotton, Complete Automatic Fifty-Ton Refrigerating Plant for Processing, F. L. FAIRBANKS	12	1	5
COTTON, R. T., and E. A. BACK, Effect of Cold Storage Upon Clothes Moths	13	12	365
CRAGOE, C. S., and D. R. HARPER, 3rd, Specific Volume of Anhydrous Liquid Ammonia ..	7	2	113
E. C. MCKELVEY and G. F. O'CONNOR, Specific Volume of Saturated Ammonia Vapor ..	9	8	239
C. H. MEYERS and C. S. TAYLOR, Vapor Pressure of Ammonia	6	5	307

C

CORROSION—Continued

	Vol.	No.	Page
N. S. OSBORNE, H. F. STIMSON, and T. S. SLIGH, JR., Specific Heat of Superheated Ammonia Vapor	10	5	145
Ratio of Specific Heats and Joule-Thomson Coefficient for Ammonia	12	5	131
Thermodynamics—Ammonia Tables versus $pV^n = \text{Constant}$ for Theoretical Calculations of Ammonia Compression	11	2	62
CRIGLER, ELIZABETH, DONALD H. ANDREWS and RALPH K. WITT, Production of Low Temperatures	19	6	177
CRISWELL, A. P., Cost of Making Ice	T5		147
CROLL, W. G., Air Batteries as Applied to Refrigeration in New Zealand Meat Works ..	9	5	158
CRYDER, D. S., and E. R. GILLILAND, Heat Transmission from Metal Surfaces to Boiling Liquids	25	2	78
CURTISS, CARL C., History of Refrigeration—Some Authentic Notes	25	2	100
CUSHMAN, A. S., Corrosion Problems in Refrigerating Systems	T6		58
CUTLER, C. W., Flywheel Requirements for Unbalanced Air and Ammonia Compressors ..	12	3	75

D

DAHLE, C. D., Ice Cream Freezing Data	12	11	369
Dairies and Creameries, Refrigeration of, E. H. FORD	17	4	109
Dairy, Application of Refrigeration in the, W. B. RORISON	10	8	287
Dairy Farm Cooling Unit, Speed and Uniformity Tests with, JOHN E. NICHOLAS ..	27	1	15
Dairy Industry Is Based on Refrigeration, C. T. BAKER	25	6	318
Dairy Products, The Refrigeration of, J. A. RUDDICK	T5		87
Dairy Refrigeration, Newest Methods in, PAUL S. STAPLES, AMOS J. VROMAN, JOHN E. NICHOLAS	27	1	9
Dairymen's League Plant, The New—Details and Operation, AMOS J. VROMAN	27	1	11
DANA, L. I., A. C. JENKINS, J. N. BURDICK, and R. C. TIMM, Refrigerants—Thermodynamic Properties of Butane, Isobutane and Propane	12	12	387
Danger Point in Refrigeration, The, JOHN T. BOWEN	19	1	23
DANNENBAUM, H., Does Ammonia Disintegrate in Absorption Plants?	T4		222
Water and Ammonia Mixer	3	6	16
DAUPHINEE, G. S., and B. H. COFFEY, Spray Nozzle Cooling Theory and Practice	8	3	177
DAVIDSON, H. O., Refrigeration in the Rayon Industry	17	6	178
DAVIS, R. C., Temperature Regulation in Air Cooling and Conditioning	25	3	149
DEAN, D. K., Vacuum Refrigeration, The Steam Ejector for Industrial Refrigerating Capacities	24	2	73
DEANS, WILLIAM, Electricity in Automatic Refrigeration	10	9	335
Deceased Members of the A.S.R.E.	28	6	326
DECILLE, O. A., and A. S. BEHRMAN, Developments in Water Treatment	17	2	55
DE KNIGHT, EDWARD W., Waterproofing in Refrigerating Work	T4		106
DENNIS, S. J., Recent Investigations in the Handling of Perishable Products for Transportation	T3		69
The Portable Refrigerating Plant of the United States Department of Agriculture ..	T4		236
DEREMER, J. G., and R. W. AYRES, A Hermetically Sealed Refrigerating Machine Using the Mercury Compressor	14	6	169
DEREMER, J. G., and G. W. DUNHAM, Recent Improvements in the Mercury Gas Compressor—Based on the Archimedes Screw Pump	26	6	307
Design of Compressors, BERNARD C. OLDHAM ..	20	2	83

D

	Vol.	No.	Page
Design of Ice Plants, C. R. NEESON	22	5	299
Design of Refrigerator Evaporators, D. P. HEATH	22	1	27
Determination of Moisture in Liquid Sulfur Dioxide, A. L. FLENNER and W. R. CAVERLY	21	5	344
Detroit Type Ice Plant, Power and Labor Requirements of, DONALD COLE	5	2	110
Developments in Automatic Control of Refrigerant Flow, EARL E. SNADER	23	1	21
Developments in Refrigerated Transport, W. F. DIETRICHSON, E. C. WOOD, JOSEPHINE E. BUDD	26	1	9
Developments in Restaurant Conditioning, EDWARD E. ASHLEY	28	5	237
Dewaxing Methods, R. E. MANLEY	23	5	275
DIAMANT, N. S., Basic Factors Governing the Economical Use of Fins	18	1	5
Dichlorodifluoromethane, Pressure—Total Heat Chart for, WALTER B. LAWRENCE	24	5	286
Dichlorodifluoromethane, Requirements for, F. R. BICHOWSKY	22	3	177
DICKERMAN, CHARLES, JR., Heat Transfers in Refrigerating Apparatus	4	3	338
DICKERMAN, CHARLES, The Construction and Actual Results Obtained from an Ice-Making Plant of Moderate Size	T4		89
DICKINSON, H. C., An Instrument for Measuring Clearance Volumes	7	6	460
and N. S. OSBORNE, An Aneroid Calorimeter and N. S. OSBORNE, The Specific Heat and Heat of Fusion of Ice	1	3	5
The Work of the Bureau of Standards on Constants of Refrigeration	2	5	46
and M. S. VAN DUSEN, The Testing of Thermal Insulators	3	2	5
Diesel Engine as Prime Mover in Ice Manufacturing Plants, The, GEORGE LANGE	18	3	63
Diesel Power in Refrigerating Plants, GEORGE M. KLEUCKER	24	3	156
DIETRICHSON, W. F., The Refrigerator Car: Historical Development	26	1	9
Dimethyl Ether as Refrigerant	23	2	102
Disappearance of Ozone in Cold Storage Rooms, ARTHUR W. EWELL	20	6	358
Dispensers for Frozen Foods, REUBEN E. OTTENHELMER	20	2	102
Display Cases, Low Temperature, G. J. HOPKINS	20	2	81
Distribution of Cold Air, Motor Driven Ductless (In Small Commercial Applications), H. HARRISON	25	5	250
DODDS, E. M., The Nation's Refrigerator	25	6	312
DOELLING, LOUIS K., The Oil Engine for Ice Plant Service	2	2	21
DOHERTY, R. E., Flywheel Effect for Synchronous Motors Connected to Reciprocating Compressors	6	3	159
DOLE, R. B., The Work of the United States Geological Survey in Its Relation to Refrigeration	T3		197
DOMBITSKY, CHARLES, Mechanical Refrigeration in the Sugar Industry	20	6	354
Sugar Refining and Refrigeration	25	6	321
Domestic Ice Refrigeration—New Trends in Box Design, CHARLES F. BELSHAW	26	1	28
Domestic Refrigerating Unit as Package Merchandise, The, W. M. TIMMERMANN	16	5	136
Domestic Refrigeration, A Review of, GLENN MUFFLY	25	6	324
Domestic Refrigeration—Old and New Angles, H. W. MCPHERSON	22	4	269
	22	5	306
Domestic Refrigeration; Service Notes on Gas and Water Controls, FRANKLIN E. VILAS ..	19	3	97
Domestic Refrigerators, Ice Baskets for, CHAS. F. BELSHAW	20	5	291
DOREMUS, R. C., Handling Equipment for the Ice Plant Tank Room	19	5	151
DOWLING, R. H., Dry Ice—Its Uses and Possibilities in Review—Some Operating Data ..	26	3	121
Dry Air Refrigerator Car, A, C. C. PALMER ..	19	2	67
Dry Ice in Modern Refrigeration, The Field of, J. W. MARTIN, JR.	15	2	33

D

	Vol.	No.	Page
Dry Ice, The Commercial Field for, JOHN E. STARR	16	2	45
Dry Ice—Its Uses and Possibilities in Review—Some Operating Data, R. H. DOWLING....	26	3	121
DRUSHEL, W. A., Refrigerator Design and Construction	15	4	110
DUEVEL, CHARLES O., JR., Carbon Dioxide and Its Solidification	22	1	18
	22	2	90
Effective Moisture in the Refrigerator.....	15	4	89
Vacuum as an Insulator	20	4	223
DUNHAM, G. W., see J. G. DE REMER.			
Dynamic Starting Performance of Direct Motor Driven Compressors, W. E. JOHNSON	28	{ 3 5	136 244

E

EAGLES, H. W., Thermal Testing of Refrigerator Cabinets	21	6	411
Ebullition of Refrigerants, L. A. PHILIPP and B. E. TIFFANY	25	3	140
ECKERSLEY, JOSEPH, Cold Storage—The Bronx Terminal Market	13	9	275
Economical Marine Insulation, EUGENE B. JOELSON	21	1	13
Economics of CO ₂ Gas for Solidification, C. L. JONES	23	1	17
Educating and Training the Engineer, HARRY SLOAN	9	6	180
Educational and Research Activity in Refrigeration, E. F. BURTON	15	4	93
EDWARDS, H. D., Chromium Steel for Brewery Equipment	26	4	192
Expanded Rubber Insulation	26	6	289
Properties of Refrigerants	11	3	95
Some Properties of Hydro-Carbon Refrigerants	8	6	488
The Hazards of Refrigerants	19	3	73
The Refrigeration Safety Code	28	5	231
What Shall the Refrigerator Buyer Be Told?	19	6	139
Effect of Humidity on Heat Transmission of Pipe, W. R. WOOLRICH	21	6	417
Efficiency, What is the Meaning of the Term? PETER NEFF	T5		65
Eggs by Cold Storage, Commercial Preservation of, M. K. JENKINS	6	1	50
Ejector Cycle, Analysis of the, PETER KALUSTIAN	28	4	188
Electric Current Rates for Refrigerating and Ice Making Plants, S. BENNIS	8	2	111
Electric Drive for Refrigerating Compressors, Present Status of, W. H. FELDMAN	13	5	149
Electric Energy to the Modern Ice Making and Refrigerating Plant, The Application of, PAUL SCHLINGMAN	11	5	165
Electric, Gas and Oil Power, Comparison of Unit Cost, D. W. MCKAY	22	3	173
Electric Load from Residence Refrigerators, HARRY A. SNOW	17	3	90
Electric Power and Central Station Power Rates, Cost of, JOHN D. NOYES	11	1	14
Electric Refrigeration, The Field for Cooperation in the Development of, F. M. COCKRELL	18	3	78
Electric Refrigeration, Present and Future of Domestic, H. G. SCOTT	12	10	338
Electric Viewpoint, Refrigeration from, J. W. WATTLES	18	2	36
Electricity for Ice Making and Refrigeration as Supplied by the Central Station, C. H. STEVENS	T9		173
Elimination of Organic Products in Air Conditioning, WILBUR K. SCHROEDER	26	6	294
ELMER, S. LEWIS, JR., Ice Formation on Pipe Surfaces	24	1	17
ELY, JAMES, Standardizing of Measuring Instruments	T5		189
Engineer as a Business Man, JOHN E. STARR..	5	6	434
Engineer in Modern Civilization, The Place of the, (Presidential Address), GEORGE A. HORNE	10	12	432
Engineer, The Refrigerating, JOHN E. STARR..	2	4	15

E

	Vol.	No.	Page
Engineer, The Social Challenge to the, (Presidential Address), GEORGE A. HORNE.....	11	6	200
Engineering Development Procedure, M. C. TERRY	20	1	13
Engineer's Appraisal of Refrigeration Advertising	21	2	91
Engineer's Specifications, Contractor's Warranty versus, JOHN C. WAIT	T2		135
Engineers, Training of, W. R. WOOLRICH.....	20	6	364
ERBACH, FREDERICK R., A Study of Liquid Control Devices for Refrigerating Systems....	15	1	1
Ethyl Chloride Refrigeration, C. C. PALMER..	T4		73
Ethyl Chloride, Technical Application of, ALBERT HENNING	6	6	446
Ethyl Ether, Vapor Phase of, WILLIAM A. FELSING and FREDERICK G. KEYES	5	4	233
ETTINGER, W. J., and H. W. MCPHERSON, Measurement of Rate of Heat Flow into Refrigerator Cabinets	16	6	169
	18	1	13
European Cold Storage Plants, ARTHUR W. EWELL	23	5	284
Evaporating Systems—More Rational Designs Needed, HERBERT C. GUILD	24	3	153
Evaporation of Water Into Air, The Temperature of, W. H. CARRIER and DANIEL C. LINDSAY	11	7	241

EVAPORATOR(S)

and Its Use in the Manufacture of Can Ice, The, LOUIS BLOCK	T1		102
Cooler and Condenser Tests, Double Pipe, F. C. STEWART and A. D. HOLLAND.....	17	1	5
Coolers and Condensers of the Double Pipe Type, Heat Transfer in, R. L. SHIPMAN..	T3		203
Systems, Modern Refrigeration, GEO. HILGER	16	4	99
Capacity of Domestic-Commercial Machines, New Scheme for Determining, L. A. PHILIPP and R. H. SWART	22	4	234
Heat Transfer Analysis, FRANK O. GASKILL	26	3	126
Design of Refrigerator, D. P. HEATH.....	22	1	27
Factors Affecting the Design of, HERMAN VETTER	24	6	348
EVERETTS, JOHN, JR., Water as a Refrigerant..	24	6	329
The Load Factor in Air Conditioning	28	3	134
EWELL, ARTHUR W., The Decomposition of Ozone—New Analyses and Their Application	26	2	68
Disappearance of Ozone in Cold Storage Rooms	20	6	358
European Cold Storage Plants	23	5	284
Humidity Measurements in Freezer Rooms..	27	3	131
Expanded Rubber Insulation, HARRY D. EDWARDS	26	6	289
Expansion of Ammonia, Flexibility of Cast Iron Radiator Sections for Direct, H. J. MACINTIRE	9	6	174
Experiences Abroad and at Home, FRED C. YOUNG	28	3	119
Explosion in Laclede Gas Building, St. Louis, Mo., R. H. SWITZLER	12	6	185

F

Factors Affecting the Design of Evaporators, HERMAN VETTER	24	6	348
Factory Testing of Refrigerators, R. T. FRAZIER	20	3	159
FAGET, ARTHUR, Precooling of Fruit.....	T6		95
FAIRBANKS, F. L., A Five Hundred Ton High Speed Booster Ammonia Compressor....	{ 3 3 5 4 3 298		
Complete Automatic Fifty-Ton Refrigerating Plant for Processing Cotton.....	12	1	5
Design, Construction and Operation of a 1000-ton Ammonia Compression Refrigerating Machine	{ 2 1 5 3 2 29		
Feather Valve Compressors of Three Types, Construction and Operation.....	9	3	85

F	Vol. No.	Page
Farm Milk Cooling Plants and Their Performance, JOHN E. NICHOLAS	28 2	73
Federation of Architects, Engineers, Chemists and Technicians (CHARLES E. ANDERSON'S letter)	26 5	266
Feed Systems, Ammonia, A. H. BAER.....	4 1	1
FEHR, R. B., and A. J. WOOD, Insulation Tests	4 5	464
FEHR, ROY B., and ARTHUR J. WOOD, Some Recent Studies in Heat Transmission.....	4 5	464
FELDBUSH, HARRY, Testing of High Speed Air Compressors	8 6	496
FELDMAN, A. M., Cooling Systems of Buildings	8 5	377
FELDMAN, W. H., Gap-Rim and Side-Wheel Synchronous Motors	15 5	137
Present Status of Electric Drive for Refrigerating Compressors	13 5	149
FELSECKER, JOHN J., Water Treatment for Raw Water Ice	8 2	135
FELSING, WILLIAM A., and FREDERICK G. KEYES, Vapor Phase of Ethyl Ether.....	5 4	233
FESSENDEN, C. H., Thermodynamics.....	16 3	79
FESSENDEN, E. A., Some Tests on Welded Ammonia Containers	7 4	281
	8 5	426
Fibreboard Shipping Containers, Corrugated, CLARENCE BIRDSEYE	19 3	75
FIELD, CROSBY, Flakice—New Developments... Business and the Sovereign State—Refrigeration under the N.R.A.	22 4	227
The Free Lands of Engineering.....	28 4	175
Machinery for Continuous Ice Production... Mr. Field, A Reply to—Politics or Ice? CLIFFORD F. HOLSKE	19 2	35
	17 2	35
	28 5	251
Fifty Years' Development in Refrigerating Machinery, TERRY MITCHELL	23 4	234
FINCK, J. L., and M. S. VAN DUSEN—Refrigerator Cabinet—New Heat Flow Studies... }	22 5	310
	22 6	385
FINN, D. B., Refrigeration and the Fishing Industry	20 5	287
Finned Tubing, C. T. BAPPLER	26 2	96
FINNIGAN, JOSEPH B., Cold Storage Warehouse as a Fire Hazard	T5	34
Fins, Basic Factors Governing the Economical Use of, N. S. DIAMANT	18 1	5
FISCHER, H. L., Application of Refrigeration in Milwaukee Bakeries.....	9 10	297
FISCHER, REINHARD M., Obsolescence of Refrigerating Machinery	25 2	92
Fish Fillets, Quick Freezing of, PAUL W. PETERSEN	20 4	20
Fish Freezing Plant, A Modern, PAUL W. PETERSEN	10 12	425
Fish, The Handling and Transport of, J. M. TABOR	12 10	339
Fish, Methods of Freezing, PAUL W. PETERSEN	9 1	7
FISHER, H. D., Flow Meters in Refrigerating Plants	6 6	409
Fisheries, The New, HARDEN F. TAYLOR.....	15 6	147
Fishing Industry Grows with Refrigeration, HARDEN F. TAYLOR	25 6	321
Fishing Industry, Refrigeration and the, D. B. FINN	20 5	287
FISKE, DAVID L., The Origins of Air Conditioning	27 3	123
The Refrigerating Industries	25 6	304
Refrigeration Progress During 1931.....	22 6	371
Refrigeration Is Not New.....	24 4	201
Thermal Properties of Sulphur Dioxide....	10 6	197
"Time I Speak of"—An Informal Retrospect of Thirty Years	28 6	287
Flakice—New Developments, CROSBY FIELD....	22 4	227
FLANDERS, RALPH E., The Destiny of Engineering	25 3	147
FLEISHER, WALTER L., Water in Refrigeration.	27 1	19
FLENNER, A. L. and CAVERLY, W. R., The Determination of Moisture in Liquid Sulphur Dioxide	21 5	344
Float Expansion Valve, WEGNER, G. A.....	21 1	34
Flooded System, Advantages and Limitations of the, H. J. KREBS	T5	206
Flooded System and Its Application to Ice-Making and Refrigerating Plants, The		

F	Vol. No.	Page
Value of the, H. RASSBACH	T5	95
Flooded Systems, Circulation in, A. H. BAER.. }	3 6	5
	4 1	1
Flow Meters, A Comparison of Standard, A. J. NICHOLAS	14 4	121
Flow of Liquids, The, W. H. McADAMS.....	11 8	279
Flow of Superheated Ammonia, The, JOHN C. REED and EDGAR AMBROSIOUS.....	19 2	45
Flow of Superheated Refrigerants in Copper Tubing, J. E. LINEBAUGH	26 2	82
Fluid Meters in Refrigerating Tests, Additional Data Regarding the Reliability of, L. S. MORSE	10 11	385
Fluid, Pressure Losses of One as a Criterion of the Pressure Losses for Any Fluid, H. J. MACINTIRE and GENE EDWARDS	26 4	185
Food Containers, Small, in Fibreboard Cases, Temperature Changes in, M. A. JOSLYN and G. L. MARSH	24 4	214
Food Freezing, Experiments in, J. G. WOODROOF	23 6	366
Food Freezing—Storage, Chemistry in, JAMES C. IRWIN, JR.....	21 5	348
Food Freezing Temperatures, PAUL W. PETERSEN	21 6	422
Food Habits, and Food Production, Refrigeration, HELEN H. PEFFER	28 3	126
Foods, Heat Transfer in, M. A. JOSLYN and G. L. MARSH	24 2	81
Foods, Latent Heats of Common, A. H. COOPER	20 2	107
Foodstuffs, Latent Heat of, WILLIS R. WOOLRICH	22 1	21
Foodstuffs, The Relative Importance of Handling and Refrigeration in the Preservation of Perishable, M. E. PENNINGTON	T7	188
For a Better Calendar, MEREDITH N. STILES..	20 3	168
FORD, E. H., Refrigeration of Dairies and Creameries	17 4	109
FORD, STANLEY G., H. J. MACINTIRE and C. S. MARVEL, Certain Physical and Chemical Properties of Methyl Chloride	14 4	115
Foreign Markets, E. DILLON SMITH	28 5	241
Foreign Trade Situation, The, E. DILLON SMITH	28 1	25
Formulae for the Refrigeration Engineer, Some Rules and, W. H. MOTZ	11 2	51
Four-Story Ice Plant, GEORGE A. LANGE	20 6	360
FRANKLIN, I. C., The Effect of the War Upon the Cold Storage Industry	6 4	237
FRASER, LEWIS H. D., JR., Ammonium Thiocyanate as an Absorbent—The Vapor-Pressure of Ammonia	24 1	20
FRAZIER, R. T., Factory Testing of Refrigerators	20 3	159
Life Tests and Refrigerators	28 1	18
The Household Ice Refrigerator	18 3	59
Free Lands of Engineering, The, CROSBY FIELD	19 2	35
Freezer Rooms, Humidity Measurements in, ARTHUR W. EWELL	27 3	131
Freezing and Melting Points of Fruits and Vegetables, AUBREY L. SMITH	21 4	272
Freezing Raw Water, Methods of, H. P. HILL	9 4	127
Freezing System, The Atomized Brine Spray..	23 2	103
Freezing Tanks, Analysis of Can Ice, FRED OPHULS	5 1	1
Freezing Tanks, Reinforced Concrete, WILLIAM M. TORRANCE	T4	126
Freight Car Refrigeration by an Adsorption System Employing Silica Gel, GEORGE E. HULSE	17 2	41
FRERICHS, F. W., Manufacture of Cylinders for Shipment of Liquid Anhydrous Ammonia and Apparatus for Withdrawing Samples of Ammonia from Cylinders	1 2	50
FREUND, HANS, Compound Compression—Review of Theory and Design from Viewpoint of German Practice	25 4	189
FRIEDMANN, E. N., Advantages of Operating Ammonia Compressors by Aid of Thermometers	T7	31
Compressor Water Jackets	T7	141
FROST, T. H., and W. H. McADAMS, Heat Transfer for Water Flowing Inside Pipes	10 9	323
Frozen Food Display Equipment, SIEGFRIED RUPPRICHT	21 3	191
Frozen Foods, Dispensers for, REUBEN E. ORTENHEIMER	20 2	102

F

	Vol.	No.	Page
Frozen Foods Have an Alluring Future, F. X. BURKE	25	6	314
Frozen Foods Industry, Some Technical Problems of the, K. T. HOLLEY	23	1	58
Frozen Foods, Public Lockers for, HENRY W. YOUNG	28	2	83
Frozen Perishable Products, CLARENCE BIRDSEYE	19	6	173
Fruit, Precooling of, ARTHUR FAGET	T6		95
Fruit Precooling Problems, A. V. STUBENRAUCH	T7		162
Fruits, Their Handling and Storage, J. L. HUGHES	T9		203
Fruits and Vegetables, Freezing and Melting Points of, AUBREY L. SMITH	21	4	272
Fuel Economy and How to Attain It, LOUIS BLOCK	T5		185
FUNK, GEORGE C., The Field of Skating Rink Design	17	3	71
Fur Storage Business, Cooling System Develops, RALPH H. BUTZ	28	1	27
Furs and Fabrics in Cold Storage, WALTER C. REID	T1		95

G

GALLENKAMP, E. W., Jr., The Gas Engine on Refrigerating Work	T8		54
Quick Freezing Temperatures	20	1	30
Gas for House Cooling, Comments on, A. D. KARR (Review)	22	3	178
Gas Engine on Refrigerating Work, The, E. W. GALLENKAMP, JR.	T8		54
Gas-fired Refrigerator, The, F. E. SELLMAN ..	14	1	9
Gas Leakage, Hazards of as Affected by Ventilation (with special reference to methyl chloride), J. B. CHURCHILL and E. T. WILLIAMS	25	5	256
Gas in Pipes, Flow of Superheated Ammonia, EDWARD F. MILLER	3	2	26
Gas and Water Controls, Service Notes on, FRANKLIN E. VILAS	19	3	97
Gas Engine Power, Natural, in the Refrigerating Plant, C. T. BAKER	26	2	65
Gases, Non-Condensable, B. E. HILL	10	10	372
Gas Storage of Perishables	28	4	181
GASKILL, FRANK O., Evaporator Heat Transfer Analysis	26	3	126
Gasoline, Application of Refrigeration Processes to the Production of Natural, E. F. BURTON	11	3	83
GAY, C. M., San Bernardino Precooling Plant ..	2	2	5
	2	4	40
Geological Survey in Its Relation to Refrigeration, The Work of the United States, R. B. DOLE	T3		197
GEIER, OSCAR A., Shopright and International Convention	24	1	42
GEORGE, HERBERT, New Insulation Studies	23	3	155
GIBSON, J. L., A Direct Expansion Calorimeter ..	24	4	206
GIEGER, F. J., Multiple V-Belt Drives	18	3	77
GILES, W. C., Air Conditioning in the Making of Rayon	27	5	255
GLABAU, CHARLES A., Refrigeration and Air Conditioning in the Bakery	11	1	18
GOFF, JOHN A., Air Conditioning Theory—Classroom Methods of Presentation	25	1	14
GOLDBERG, PHILIP, Survey of Patents on Metallic Insulation	28	4	185
GOODHEART, M. F., Some Practical Points in Showcase Operation	28	2	80
GOODWIN, W. C., Commercial Air Conditioning Equipment, Unit Equipment for Restaurants, Offices and Stores	26	6	301
GOOLSBY, J. H., The X-Ray in Examination of Welded Pressure Vessels	25	3	134
GOOSMANN, J. C., Comment on Duevel Article on Solid Carbon Dioxide	22	4	260
Factors Governing the Liquefaction of Carbon Dioxide	14	1	13
Safety Automatic Refrigerating Equipment..	9	12	359
The Carbonic Acid Refrigerating Machine..	T1		112
The Progressive Development of Carbon Dioxide Refrigerating Methods	14	6	188
Carbon Dioxide Thermodynamics: Part IV., Solidification	27	1	27

G

	Vol.	No.	Page
Carbon Dioxide Thermodynamics—Review of Research Related to CO ₂	26	4	190
	26	5	245
	26	6	301
GOOSMANN, J. C., and F. R. ZUMBRO, Recent Improvements in Carbon Dioxide Equipment	16	1	1
GORDON, LEWIS F., The Thing Beyond	20	2	106
GOREE, C. P., Automatic Refrigerant Control...	20	5	295
GOREE, C. P., Jr., and L. R. GRAVES, Recent Applications of Refrigeration for Precooling..	18	2	37
GOULD, R. E., A. P. KRATZ, and H. J. MACINTIRE, Heat Transfer in a Multitube-Multipass Ammonia Condenser	17	3	79
Graduates, Recent, Are Thinking, REGINALD DEVOLSON WOOD	28	5	253
GRAVELL, J. H., Resistance Welding and Its Application to Refrigerating Machinery	8	1	11
GRAVES, L. R., and C. P. GOREE, JR., Recent Applications of Refrigeration for Precooling..	18	2	37
GRAY, C. E., Refrigeration of Butter and Cheese	T2		90
GREEN, F. W., Oil Engine Driven Ammonia Compressors	12	9	311
GREENE, VAN R. H., and FRED OPHULS, The Rate of Heat Transfer in Double-Pipe Brine Coolers	2	2	45
A New Era in Refrigeration, (Presidential Address)	12	6	184
Clearance and Its Effect on the Volumetric Efficiency of Ammonia Compressors.....	T6		111
Modern Refrigerating Practice, (Presidential Address)	11	12	418
Performance of Raw Water Can Ice Plants..	4	1	25
Problems Encountered in the Design and Construction of an Ammonia Compression Test Plant	T7		50
The Automatic Refrigerating Machine	T3		88
GREEVES-CARPENTER, C. F., Refrigeration Has Built the Banana Industry	27	2	65
Refrigeration in the Citrus Industry	28	2	66
GREGG, J. L., Properties of Metal Foil as an Insulating Material	23	5	279
GRETH, J. C. WILLIAM, Water Purification for Ice and Refrigerating Plants	T5		46
GRUNDHOFFER, E. F., Heat Transmission—The Guarded Plate Heater Method of Testing Low Temperature Insulators Compared with Several Box Methods	13	5	151
GRUPE, W. F., Mounting Insulation in Refrigerators	15	5	136
GULD, HERBERT C., Evaporating Systems—More Rational Designs Needed	24	3	153

H

HAINSWORTH, WILLIAM R., Operating Cost of Household Refrigeration by Gas	13	8	245
HALBERG, M. N., Synchronous Motors for Refrigeration Service	25	4	193
HALBERG, M. N., see McLENEGAN, D. W.			
HANSON, O. B., Air Conditioning Radio City Studios—Detail of Design and Operation of National Broadcasting Company's New Headquarters	27	6	293
HARDY, W. B., Scientific Problems of Cold Storage Industries	6	3	201
HARPER, D. R., 3rd, and C. S. CRAGOE, Specific Volume of Anhydrous Liquid Ammonia ..	7	2	113
HARPER, D. R., 3rd	19	6	180
HARRISON, H., Motor Driven Ductless Distribution of Cold Air (In Small Commercial Applications)	25	5	250
HARRY, J. B., Advantages of Different Constructions of Cooling Towers for Condensers	6	3	178
HARRY, J. BARTON, Cooling Tower Economy...	22	5	314
HART, B. FRANKLIN, JR., Cooling Towers	T2		177
HARTMAN, FRANK E., Modern Trend in Applying Ozone to Cold Storage.....	11	12	409
Ozone and Cold Storage	11	5	173
HAVEN, CHARLES D., Insulation in Home Building	20	6	370
HAVEN, C. D., The Mechanically Refrigerated Ice Cream Cabinet	12	4	103

H

Vol. No. Page

HAZARDS of Gas Leakage as Affected by Ventilation (with special reference to methyl chloride), J. B. CHURCHILL and E. T. WILLIAMS 25 5 256

HAZARDS of Refrigerants, The, HARRY D. EDWARDS 19 3 73

Heats, An Aneroid Calorimeter for Specific and Latent, NATHAN S. OSBORNE 4 2 103

Heat Balance of the Ammonia Compression System, J. H. H. VOSS 4 4 345

Heat Content for Frozen Sodium and Calcium Brines, R. S. JESSUP 22 3 166

Heat Flow, New Studies—Refrigerator Cabinet, J. L. FINCK and M. S. VAN DUSEN 22 5 310

Heat and Moisture Losses of Men at Work, T. C. HOUGHTON and associates (Review) 22 1 32

Heat Pumping as Applied to Inventions, Theory of, H. H. JACOBS 10 8 306

Heat, Surface Absorption of from Solar Radiation, F. G. HECHLER and E. R. QUEER 25 2 86

HEAT TRANSFER

And Refrigeration, CHARLES S. KEEVIL 19 2 41

Boilers, High Rate, ENOCH RECTOR 3 6 20

Bibliography on, CHARLES H. HERTER ... 6 5 379

Bibliography on, DUFF A. ABRAMS 8 2 150

Determination of the Thermal Conductivities of Insulation for Temperatures up to 1000 Deg. Fah. on Other Than Flat Surfaces, R. H. HEILMAN 13 4 129

Effect of Moisture on, SIEGFRIED RUPP- RICHT 27 4 182

Evaporator, Analysis, FRANK O. GASKILL For Water Flowing Inside Pipes, W. H. McADAMS and T. H. FROST 26 3 126

From Metal Surfaces to Boiling Liquids, D. S. CRYDER and E. R. GILLILAND.... 10 9 323

From Air to Pipes, CHARLES H. HERTER ... } 25 2 78
 { 4 3 308
 { 4 3 337

In Foods, M. A. JOSLYN and G. L. MARSH In Unit Cooler, W. R. WOOLRICH, PAUL W. SCATES, and MACK TUCKER 24 2 81

In Brine Hold-Over Tanks, CHARLES H. HERTER 26 5 239

In Cast Iron Radiator Sections for Ammonia, H. J. MACINTIRE 10 10 370

In Double-Pipe Brine Coolers, The Rate of, FRED OPHULES and VANR. H. GREENE 11 6 195

In Refrigerating Apparatus, CHARLES DICKERMAN, JR. 2 2 45

In Walls be Measured, How Shall, F. H. HECHLER 4 3 338

Knowledge and Data in the Refrigeration Field, Status of, P. NICHOLS 15 4 97

Mechanism of Through Insulation, W. J. KING 13 9 276

Measurements, Present Practice in, F. G. HECHLER 20 3 169

A New Thermal Plate for Conduction and Surface Transmission, A. J. WOOD 18 2 44

A New Thermal Testing Plate for Conduction and Surface, F. C. HOUGHTON and A. J. WOOD 9 5 160

Of Finned Cooling Surfaces in Air, CHESTER J. SCANLIN 8 1 23

OF Insulators, Defining the Heat Conductivity, CHARLES H. HERTER 27 4 197

Of Compound Walls, with Tests on Insulated Steel Car Sections, Determining, A. J. WOOD T9 230

Photographic Records of, and Their Analysis, SIEGFRIED RUPP RICHT 3 4 44

Recent Developments in, W. J. KING 26 1 19

Research in, EDGAR BUCKINGHAM 24 2 76

Research, Some Results of, F. B. ROWLEY 11 3 91

Some Recent Studies in, ARTHUR J. WOOD and ROY B. FEHR 12 11 366

Surface Transmission, R. H. HEILMAN .. 4 5 464

The Guarded Plate Heater Method of Testing Low Temperature Insulators Compared with Several Box Methods, E. F. GRUNDHOFFER 16 1 15

13 5 151

H

Vol. No. Page

Theories, W. J. KING 19 5 163

Through Building Materials, Effect of Velocity and Humidity of Air on, J. A. MOYER 3 1 7

Through Externally and Internally Extended Surfaces of High Duty Steam Heat Waste in the Ammonia Compression Refrigerating Machine, J. H. H. VOSS 9 8 249

Heating and Cooling New Edison Building, M. M. LAWLER 24 1 45

HEATH, D. P., Design of Refrigerator Evaporators 22 1 27

Zoning the United States for Refrigeration 16 6 175

HECHLER, F. G., How Shall Heat Transmission in Walls be Measured? 15 4 97

Methods That Have Been and Are Being Used for Measuring Heat Transmission 13 4 121

Present Practice in Heat Transmission Measurements 18 2 44

HECHLER, F. G. and E. R. QUEER, Surface Absorption of Heat from Solar Radiation 25 2 86

HEILMAN, R. H., Heat Transmission—Determination of the Thermal Conductivities of Insulation for Temperatures up to 1000 Deg. Fah. on Other Than Flat Surfaces .. 13 4 129

Heat Transmission—Surface Transmission 16 1 15

HEISS, DR. INC., R., Retaining Meat Color in Quick Freezing 22 2 95

HEMPHILL, R. H., Natural Ice, Artificially Produced 8 5 408

HENNING, ALBERT, Technical Applications of Ethyl Chloride 6 6 446

HENRY, D. B., Problems in the Application of Refrigeration 17 6 184

HERDLEIN, WALLACE, Cooling Passenger Cars—A Review of Practice and Discussion of a New System Using Ice 25 5 235

HERITAGE, A. M., Refrigeration in Connection With Gas Warfare 5 6 403

Hermetically Sealed Refrigerating Machine Using the Mercury Compressor, A. J. G. DEREMER and R. W. AYRES 14 6 169

HERTER, CHARLES H., Bibliography on Heat Transmission 6 5 379

Defining the Heat Conductivity of Insulators T9 230

Heat Transfer from Air to Pipes } 4 3 308
 { 4 3 337

Heat Transfer in Brine Hold-Over Tanks 10 10 370

HESS, HERBERT W., How Can Capitalism Reorganize to Consume 28 2 81

HIBBARD, TRUMAN, Synchronous Motors for Driving Ammonia Compressors 4 4 388

HILL, B. E., Non-Condensable Gases 10 10 372

HILL, CLIFFORD B., Refrigeration Plant Chemistry 25 4 216

HILL, H. P., Methods of Freezing Raw Water Report of Committee on Synchronous Motor Design 9 4 127

15 2 48

HILL, WALTER L., Cold Storage Temperatures and Arrangement of Cold Storage Warehouses for Handling All Classes of Merchandise T5 136

HILLER, N. H., SR., Discussion of Method of Determining Capacity and Economy of Absorption Machines 7 1 58

The Manufacture of Distilled Water Can Ice T8 109

HILLER, N. H. JR., Application of Refrigeration to the Oil Industry 16 2 35

HILGER, GEORGE, Modern Refrigeration Evaporating Systems 16 4 99

Three Pressure Refrigerating Temperature-Difference Control and Defrosting System 11 8 293

History of Refrigeration—Some Authentic Notes, CARL C. CURTISS 25 2 100

HIRSCH, MARTIN, Defining Humidity for Refrigerated Storage 19 4 113

HOLLAND, A. D., and F. C. STEWART, Double Pipe Cooler and Condenser Tests 17 1 5

H		Vol. No. Page
HOLLEY, K. T., Some Technical Problems of the Frozen Foods Industry	23 1	58
HOLLUP, CHARLES, Welding	4 3	235
HOLSKE, CLIFFORD F., Ice as a Factor in Air Conditioning Costs	25 3	133
Refrigeration Is Expensive—The Economic Limitations of Air Conditioning	27 6	289
Politics or Ice?—A Reply to Mr. Field ..	28 5	251
Home Building, Insulation in, CHARLES D. HAVEN	20 6	370
Homes, Application of Refrigeration to Heating and Cooling of, A. R. STEVENSON, JR., F. H. FAUST and E. W. ROESSLER	23 2	83
HOPKINS, G. J., Low Temperature Display Cases	20 2	81
HORNADAY, J. R., Comparison of Various Refrigerants for Small Units	13 12	363
HORNE, FRANK A., Cold Storage Industry Today	19 4	105
Cold Storage and Our Food Supply	11 12	429
HORNE, GEORGE A., and ALFRED W. OAKLEY, Tests of a two Stage Double Inlet Ammonia Compressor	19 6	181
Cold Storage Operation Data	13 6	177
Compound Ammonia Compression	8 4	245
	8 6	455
Performance of Single Acting Simple Ammonia Compressor and Tubular Condensers	9 5	143
	10 1	14
The Place of the Engineer in Modern Civilization (Presidential Address)	10 12	432
The Social Challenge to the Engineer. (Presidential Address)	11 6	200
HORNE, GEORGE A., and B. H. COFFEY, A Theory of Cooling Towers Compared with Results in Practice	1 1	78
	2 6	6
	3 3	32
	7 3	173
	11 6	187
and FRED OPHULS, Recent Improvements in Refrigerating Apparatus	11 1	1
	12 12	406
HORNE, GEORGE A., Predicts Central Station Refrigeration	21 3	183
HOUGHTEN, F. C., and A. J. WOOD, A New Thermal Testing Plate for Conduction and Surface Heat Transmission	8 1	23
House Cooling by the Absorption System DONALD B. KNIGHT	24 2	89
House Cooling and Summer Air Conditioning Field, Gas Makes Its Entry Into, E. D. MILENER (Review)	22 2	106
How Can Capitalism Reorganize to Consume, HERBERT W. HESS	28 2	81
How Will Air Conditioning Be Marketed, EVERETT R. RYAN	28 2	63
HOUSEHOLD REFRIGERATION		
JOHN E. STARR	5 3	157
	6 1	34
Machines, Comparative Tests of, GEORGE B. BRIGHT	13 11	323
Machines, Rating of, R. F. MASSA	6 6	432
Machines, Testing of, HENRY L. LINCOLN ..	6 2	91
L. A. PHILIPP and C. C. SPREEN	13 10	301
	13 22	355
	14 2	61
	14 5	145
	15 1	9
and Research Work, C. C. SPREEN	11 12	416
by Gas, Operating Cost of, WILLIAM R. HAINSWORTH	13 8	245
The Evaluation of the Fractional Ton Refrigerating Machine, J. B. CHURCHILL ..	15 3	67
Machine, Design Problems of the, M. LASSEN	12 12	409
(see specific problem in question)		
Household Refrigerating Machine Design, Some Problems in, GUSTAVE A. KRAMER ..	7 1	29
How to Keep Retail Meats—A New Series of Investigations on an Old Problem in Commercial Refrigeration, R. E. KING	27 6	303
HOWARTH, H. A. S., Influence of Shaft Deflection Upon Bearing Design	19 5	146
HOYT, H. M., Truck Refrigeration	26 5	255
HUGHES, J. L., Fruits, Their Handling and Storage	T9	203

H		Vol. No. Page
HUKILL, W. J., Refrigerator Car Surface Temperatures	23 4	225
An anemometer for Measuring Low Air Velocities	28 4	197
HULSE, GEORGE E., Freight Car Refrigeration by an Adsorption System Employing Silica Gel	17 2	41
Human Beings, Air Conditioning, OTTO W. ARMSPACH	20 6	351
Humidity and Air Circulation in Cold Storage, MILTON W. BROWNE	21 1	27
Humidity and pH Recorders	21 1	38
Humidity Measurements in Freezer Rooms, ARTHUR W. EWELL	27 3	131
Humidity for Refrigerated Storage, Defining, MARTIN HIRSCH	19 4	113
Hydrated Solid Carbon Dioxide, WALTER S. JOSEPHSON	19 1	25
Hydro-Carbon Refrigerants, Some Properties of, H. D. EDWARDS	8 6	488

I

ICE

Artificially Produced, Natural, R. H. HEMPHILL	8 5	408
as a Factor in Air Conditioning Costs, CLIFFORD F. HOLSKE	25 3	133
A Survey of, for Air Cooling Applications, ROBERT T. BRIZZOLARA	23 3	161
Baskets for Domestic Refrigerators, CHARLES F. BELSHAW	20 5	291
Can Agitation, The Conditioning of Air for, LAWRENCE WASHINGTON	25 4	199
Car Conditioning System Uses, R. T. BRIZZOLARA	22 4	240
Cost of Making, A. P. CRISWELL	T5	147
Engineering, HOWARD T. BARNES	16 4	93
Experiences in the Manufacture of Plate, IRVING WARNER	T3	107
Factory of the Future, The, VICTOR H. BECKER	T5	7
Formation on Pipe Surfaces, S. LEWIS ELMER, JR.	24 1	17
Handling Machinery, J. E. MOUL	11 8	288
In Ribbons—New Developments	28 3	141
Making from Sea-Water Power	28 5	250
Melting, The Rate of, PAUL W. SCATES ..	22 1	15

ICE PLANTS

Making Plant of Moderate Size, The Construction and Actual Results Obtained from an, CHARLES DICKERMAN	T4	89
Making Plants, Cost Reduction of, LOUIS BLOCK	T5	31
Making Plants, Manufacturing Expense of, FRED OPHULS	13 9	271
Making Plants, Structures for, F. S. STRITE ..	17 6	168
Manufacturing Industry, A Future for the, W. EVERETT PARSONS	T2	44
Manufacturing Plant, The Small Town, E. F. BURTON	11 7	264
Plant Building Design, New Type, C. R. NEESON	15 5	119
Plant Depreciation, GEORGE E. WELLS	6 5	369
Plant Design, TERRY MITCHELL	19 2	65
Plant Drive, Electric Power for, CHARLES R. NEESON	6 2	109
Plant Economics, Modern, R. T. BRIZZOLARA and E. C. SOARES	21 2	101
Plant, The Electrically Driven, FRED OPHULS ..	11 11	377
Plant, Electrically Operated, H. SLOAN	4 3	269
Plant, The Electrically Operated, HARRY SLOAN	20 3	164
Plant, Four-Story, GEORGE A. LANGE	20 6	368
Plant Operation, CARL WILKIE	11 6	202
Plant Reconstruction, H. L. LINCOLN	19 3	80
Plant Tank Room, Handling Equipment for, R. C. DOREMUS	19 5	151
Plants, Design of, C. R. NEESON	22 5	299
Plants, The Organization and Operation of a Group of, WILLIAM J. LEWIS, JR.	14 6	165
Plants, Performance of Raw Water Can Ice, VAN R. H. GREENE	4 1	25

	I	Vol. No.	Page
ICE PLANTS—Continued			
Plants, The Plate System and the Can System in, EDGAR PENNEY	T1		55
Production, Machinery for Continuous, CROSBY FIELD	17	2	35
Progress During 1932 in Comfort Cooling with	24	5	265
Properties, Management Control of a Group of, ARTHUR L. MULLERGREEN	23	1	23
Storage Capacity, Determining Advantageous, F. E. MATTHEWS	6	3	196
The Manufacture of Distilled Water Can, N. H. HILLER	T8		109
The Specific Heat and Heat of Fusion of, H. C. DICKINSON and N. S. OSBORNE	1	3	32
The Use of—Past and Future, ROBERT T. BRIZZOLARA	25	6	330
Under Various Conditions, The Relative Bacteriological Contents of Can, Plate and Natural, JOHN C. SPARKS	T4		59
Vending System for, W. K. BOOTH	23	5	289
ICE CREAM			
Cabinet, The Mechanically Refrigerated, C. D. HAVEN	12	4	103
Freezing Data, C. D. DAHLE	12	11	369
Hardening Room, Improving the, NEWTON L. SWYLER	22	5	321
Industry, The, GEORGE E. WALLIS	25	6	313
Plant, A Modern, HENRY G. LAMY	11	4	147
Plant, The Modern, P. T. SEALEY	24	5	283
Thermal Exchange in the Freezing and Hardening of, HARPER F. ZOLLER	11	2	66
Icing Stations, Railway Car, C. T. BAKER	19	4	106
Improving the Ice Cream Hardening Room, NEWTON L. SWYLER	22	5	321
Impurities in Ammonia in Refrigerating Plants, The Best Methods of Detecting, JOHN C. SPARKS	T3		144
Instruments in Refrigeration, Electrical Measuring, CRANDALL Z. ROSENCRANS	18	1	85
Instruments in Refrigerating Plant Operation, The Use of Physical, C. THOMAS BAKER ..	19	1	3
INSULATION			
JULIUS H. STONE	T2		147
GILBERT A. YOUNG and E. F. BURTON	10	9	345
HARVEY B. LINDSAY	19	1	9
Aluminum Foil as a Basis of, MAX BREITUNG	22	1	11
Aluminum Foil as Truck Body, MAX BREITUNG	23	1	27
and the Design of Refrigerators—Is It Possible to Over-Insulate, SIEGFRIED RUPPRICHT	28	3	131
Economical Marine, EUGENE B. JOELSON	21	1	13
Effect of Moisture on the Heat Transmission in, L. F. MILLER	14	5	141
Economic Value of, JUNIUS H. STONE	T6		74
in the Refrigerating Field, Economic Thickness of, P. NICHOLLS	9	5	152
Expanded Rubber, HARRY D. EDWARDS	26	6	289
In Home Building, CHARLES D. HAVEN	20	6	370
Mechanism of Heat Transfer Through, W. J. KING	20	3	169
Metal Heat, JOSEPH LEGRAND	27	2	78
Migration of Moisture in Refrigeration, HAL W. MCPHERSON	24	5	277
Modern Developments in, W. H. MIKKELSON	12	1	7
New Studies, HERBERT GEORGE	23	3	155
Refrigerator, the Use of Paper as, J. L. KNIGHT	22	2	88
of Roof Structures, J. H. BRACKEN	9	12	373
Survey of Patents on Metallic, PHILIP GOLDBERG	28	4	195
Testing Sheet Steel, J. T. NICHOLS	28	2	76
Tests, A. J. WOOD and R. B. FEHR	4	5	464
The Testing of Thermal, H. C. DICKINSON and M. S. VAN DUSEN	3	2	5
Thermal Conductivity of Heat, M. S. VAN DUSEN	7	3	202
Upkeep, JOHN E. STARR	6	5	372
Vapor Proofing of Refrigeration, J. H. BRACKEN	15	4	103
Insulator, Vacuum as an, CHARLES O. DEUVEL, JR.	20	4	223

	I	Vol. No.	Page
What the Insulants Have Contributed	28	6	313
Invention and the Scientific Method, R. L. SACKETT	18	2	47
Irradiation of Milk, GEORGE W. PUTNAM	27	3	133
IRVING, HENRY F., Power Requirement for a Small Compressor	24	1	12
IRWIN, JAMES C., JR., Chemistry in Food Freezing—Storage	21	5	348
ISAACS, A., and E. C. MCKELVY, Gas Formation in Ammonia Absorption Refrigerating Machines, Its Causes and Remedy	4	5	447

J

JACOBS, H. H., Theory of Heat Pumping as Applied to Inventions	10	8	306
JACOBUS, D. S., Standard Method of Testing Refrigerating Machines	T4		122
JENKINS, A. C., J. N. BURDICK, R. C. TIMM and L. I. DANA, Refrigerants—Thermodynamic Properties of Butane, Isobutane and Propane	12	12	387
JENKINS, M. K., Commercial Preservation of Eggs by Cold Storage	6	1	50
Propane	12	12	387
JENKS, L. HOWARD, Effect of Speed on Compressor Capacity and Power	12	9	291
Presidential Address	13	6	186
Progress in Refrigeration (Presidential Address)	12	12	414
JENNINGS, B. H., Measurement of Carbon Dioxide in a Refrigeration System	27	4	195
JESSUP, R. S., Heat Contents for Frozen Sodium and Calcium Brines	22	3	166
JESSUP, R. S., and C. H. MEYERS, Specific Volume of Superheated Ammonia Vapor	11	10	345
Properties of Refrigerating Brines	12	6	171
JOELSON, EUGENE B., Economical Marine Insulation	21	1	13
JOHNSON, W. E., Dynamic Starting Performance of Direct Motor Driven Compressors	28	{ 3	136
.....		{ 5	244
JONES, C. L., Economics of CO ₂ Gas for Solidification	23	1	17
JONES, CHARLES L., The Use of Solid Carbon Dioxide	25	6	331
JOHNSON, CHARLES, Practical Constants in the Theory of Refrigeration	T6		90
JOSEPHSON, WALTER S., Hydrated Solid Carbon Dioxide	19	1	25
JOSLYN, M. A., and G. L. MARSH, Heat Transfer in Foods	24	2	81
Temperature Changes in Small Food Containers in Fibreboard Cases	24	4	214

K

KALUSTIAN, PETER, Analysis of the Ejector Cycle	28	4	188
KARR, A. D., Comments on Gas for House Cooling (Review)	22	3	178
KAUFMANN, DALE W., Viscosity of Refrigerating Brines	27	6	306
KEELER, HUGH E., Absorption Type of Household Refrigerating Machines	12	8	269
KEEVIL, CHARLES S., Heat Transmission and Refrigeration	19	2	41
KEITH, D. F., Cooling With Portable Units	20	6	361
Milk Cooling on the Dairy Farm with Absorption Machines	21	6	426
KENNEDY, H. T., and CYRIL H. MEYERS, Critical Temperature Measurements on Carbon Dioxide in Small Capillaries	15	5	125
KENNEY, ARTHUR W., and FREDERICK G. KEYES, The Present Status of the Thermodynamic Properties of Carbon Dioxide	3	4	17
KEPPLER, FERDINAND, The Mollier Psychrometric Chart—Developed for the English System	27	2	71
.....	{ 27	3	136
KEYES, FREDERICK G. and LEIGHTON B. SMITH, The Present State of Psychrometric Data	27	3	127
KEYES, FREDERICK G., and WILLIAM A. FELSING, Vapor Phase of Ethyl Ether	5	4	233

K

	Vol.	No.	age
and ARTHUR W. KENNEY, The Present Status of the Thermodynamic Properties of Carbon Dioxide	3	4	17
A New Equation of State Applied to Ammonia and Other Substances	1	1	9
Equations for Ammonia Based on New Experimental Material	2	4	20
Isometrics of Ammonia Superheated Region and Vapor Pressure of Liquid Ammonia..	7	5	371
The Numerical Values of Some Constants Used by the Refrigerating Engineer	8	6	505
KING, R. E., How to Keep Retail Meats—A New Series of Investigations on an Old Problem in Commercial Refrigeration	27	6	303
KING, W. J., Heat Transmission Theories ..	19	5	163
Mechanism of Heat Transfer Through Insulation	20	3	169
Recent Developments in Heat Transmission	24	2	76
KLEUCKER, GEORGE M., A Water Distributing Device for Condensers	7	1	22
KLEUCKER, GEORGE M., Diesel Power in Refrigerating Plants	24	3	156
KNIGHT, DONALD B., House Cooling by the Absorption System	24	2	89
Metering Air by Psychrometry	25	4	198
KNIGHT, J. L., The Use of Paper as Refrigerator Insulation	22	2	88
KRAMER, GUSTAVE A., Some Problems in Household Refrigerating Machine Design	7	1	29
KRAMPE, HUGH J., Low Temperature Test Rooms	21	5	331
KRATZ, A. P., H. J. MACINTIRE, and R. E. GOULD, Heat Transfer in a Multitube-Multipass Ammonia Condenser	17	3	79
KREBS, H. J., Advantages and Limitations of the Flooded System	T5		206

L

LAMY, HENRY G., A Modern Ice Cream Plant	11	4	147
LANDRETH, C. P., Water Softening and Purifying by Electro-Chemical Methods	1	1	96
LANCE, GEORGE, Comfort Cooling with Ice ...	24	1	31
The Diesel Engine as Prime Mover in Ice Manufacturing Plants	18	3	63
Four-Story Ice Plant	20	6	368
LANGE, H. T., Control Valves for Refrigerating Fluids	26	1	17
LASSEN, M., Design Problems of the Household Type Refrigerating Machine	12	12	409
Latent Heats of Common Foods, A. H. COOPER	20	2	107
Latent Heats of Foodstuffs, WILLIS R. WOOLRICH	22	1	21
LAVERY, F. W., Natural Gas in the Refrigerating Plant	24	3	147
LAWLER, M. M., Heating and Cooling New Edison Building	24	1	45
LAWRENCE, WALTER B., Pressure—Total Heat Chart for Dichlorodifluoromethane	24	5	286
LEBOVICI, J., Starterless Induction Motors for Ammonia Compressors	8	5	398
Legislation—State and Federal, Cold Storage, R. H. SWITZLER	T7		85
LEGRAND, JOSEPH, Metal Heat Insulation	27	2	78
LEOPOLD, CHARLES S., Variation in Air Conditions—in its Relation to Comfort and Health	26	1	15
LEWIS, H. I., Some Notes on Freezing Tank Design	9	10	301
LEWIS, L. L., Air Conditioning in the Theatre Air Conditioning—Recirculation in Theatre Cooling	14	2	55
	15	5	122
LEWIS, WILLIAM J., JR., Notes on the Design of Automatically Controlled Refrigerating Plants	10	7	243
The Organization and Operation of a Group of Ice Manufacturing Plants	14	6	165
Life Members of the A.S.R.E.	28	6	324
Life Tests and Refrigerators, R. T. FRAZIER	28	1	18
LINCOLN, H. L., Ice Plant Reconstruction	19	3	80
Testing of Household Refrigerating Machines	6	2	91
LINDSAY, DANIEL C., and W. H. CARRIER, The Temperature of Evaporation of Water Into Air	11	7	241
LINDSAY, HARVEY B., The "Radif" Thermometer	25	5	261

L

	Vol.	No.	Page
Refrigerated Auto Trucks	25	6	333
Insulation	19	1	9
Theory of Specific Contained Surface Resistance	19	6	192
LINDSAY, P. K., Spray Cooling Systems	7	4	247
LINEBAUGH, J. E., Flow of Superheated Refrigerants in Copper Tubing	26	2	82
Liqqas—A Possible New State of Matter, GARDNER T. VOORHEES	78		48
Liquid Control Devices for Refrigerating Systems, A Study of, FREDERICK R. ERBACH ..	15	1	1
Loading the Refrigerator Car, A. J. LORION ..	20	3	151
LOHMAN, WILLIAM J., Air Circulation—A Practical Storage Problem	21	1	37
LOHMAN, WILLIAM J., Ozone in Cold Storage Plants	17	4	122
LOOMIS, F. W., and LIONEL S. MARKS, Physical Properties of Anhydrous Ammonia ..	T8		177
LORION, A. J., Loading the Refrigerator Car..	20	3	151
Low Temperature Display Cases, G. J. HOPKINS	20	2	81
Low Temperatures Freezing, New Applications of, FRANK ZUMBRO	21	4	259
Low Temperature Test Rooms, HUGH J. KRAMPE	21	5	331
Low Temperatures and Rotary Compressors, HARRY SLOAN	23	6	362
Low Temperatures, Production of, by the Desorption of Gases from Charcoal, DONALD H. ANDREWS, RALPH K. WITT and ELIZABETH CRIGLER	19	6	177
Lubricated Journal Bearings, Characteristic Curves for Fluid Film, LOUIS J. BRADFORD AND CHARLES DAVENPORT	24	6	343
Lubricating Prime Movers, Recent Trends in the Practice of, C. H. BROMLEY	11	5	159
Lubrication, Refrigerating Practice with Reference to, J. K. L. WEBLING	28	4	185
Lubrication, SO ₂ —Oil Systems, L. A. PHILIPP and B. E. TIFFANY	27	5	248
Lubrication Technique, BURT L. NEWKIRK	24	5	268
Lubricants, Comparative Tests of, E. J. TAVANLAR	19	2	56
LUCKE, CHARLES EDWARD, Performance of Ammonia Compression Machines	T4		138
LYLE, J. I., Atmospheric Dehumidifying.....	T8		127
Refrigeration in Relation to Air Conditioning in War Industries	5	5	376

Mc

McADAMS, W. H., and T. H. FROST, Heat Transfer for Water Flowing Inside Pipes	10	9	323
The Flow of Liquids	11	8	279
McCARTY, R. A., Standardization in the Design and Application of Synchronous Motors Driving Refrigerating Machinery	9	1	4
McKAY, D. W., Electric, Gas and Oil Power, Comparison of Unit Costs	22	3	173
McKELVEY, E. C., C. S. CRAGOE, and G. F. O'CONNOR, Specific Volume of Saturated Ammonia Vapor	9	8	239
and A. ISAACS, Gas Formation in Ammonia Absorption Refrigerating Machines, Its Causes and Remedy	4	5	447
and C. S. TAYLOR, Composition and Testing of Commercial Liquid Ammonia	3	5	30
and C. S. TAYLOR, Composition, Purification and Certain Constants of Ammonia	9	7	213
McKENZIE, IAN, Refrigeration on Board Ship.	23	1	11
McLAY, A. D., Air Conditioning and the Central Stations	25	3	129
McLENEGAN, D. W., Some Problems in the Application of Direct Connected Synchronous Motors to Carbon Dioxide Compressors...	13	7	220
and M. N. HALBERG, Air Conditioning Equipment on Residential and Commercial Power Circuits	28	1	21
McNULTY, J. W., Steam Jet Refrigeration	28	1	14
McPHERSON, H. W., Domestic Refrigeration—Old and New Angles	22	4	269
	22	5	306
Migration of Moisture in Refrigeration Insulation	24	4	209
	24	5	277

Mc

Vol. No. Page

McPHERSON, H. W., and W. J. ETTINGER, Measurement of Rate of Heat Flow into Refrigerator Cabinets } 16 6 169
 } 18 1 13
 McPIKE, E. F., Present Practice of Refrigeration Transport 18 1 1
 The Refrigerator Car—Retrospective and Prospective T9 125
 McQUEEN, EDWIN, Conveying Machinery in the Refrigerating Industry 6 5 344
 MACINTIRE, H. J., and GENE EDWARDS, Pressure Losses of One Fluid as a Criterion of the Pressure Losses for Any Fluid 26 4 185
 and EARL BELING, Performance Tests on a Flooded Type Atmospheric Ammonia Condenser 10 3 87
 R. E. GOULD and A. P. KRATZ, Heat Transfer in a Multitube-Multipass Ammonia Condenser 17 3 79
 C. S. MARVEL and STANLEY G. FORD, Certain Physical and Chemical Properties of Methyl Chloride 14 4 115
 An Oscillating Ammonia Compressor 9 8 252
 Flexibility of Cast Iron Radiator Sections for Direct Expansion of Ammonia 9 6 174
 Heat Transfer in Cast Iron Radiator Sections for Ammonia 11 6 195
 Pressure—Total Heat Diagram for Carbon Dioxide 8 3 211
 Tests on a Rotary Ammonia Compressor 11 9 325

M

Maiuri Cold Multiplier 25 2 95
 Man and the Machine, H. S. PERSON 20 4 234
 Management and Control of a Group of Ice Properties, ARTHUR L. MULLERGREEN 23 1 23
 MANLEY, R. E., Dewaxing Methods 23 5 275
 Manufacturing Cost, E. S. SCHENK 14 5 139
 Marine Refrigeration, High Revolution Compressors for, E. MARKHAM 12 4 111
 Marine Refrigeration, Notes on, A. H. BAER.. 5 5 383
 MARKELL, E. L., and H. J. RAMSEY, Precooling Lettuce and Celery 4 5 507
 Marketing of Frozen Foods, Confer on Practical Problems 21 1 44
 Marketing, Quick Freezing and, W. R. TUCKER 20 3 149
 Markets, Foreign, E. DILLON SMITH 28 5 241
 MARKHAM, E., High Revolution Compressors for Marine Refrigeration 12 4 111
 MARKS, LIONEL S., and F. W. LOOMIS, Physical Properties of Anhydrous Ammonia T8 177
 MARTIN, J. W., JR., The Field of Dry Ice in Modern Refrigeration 15 2 33
 MARTIN, JAMES W., JR., Quick Freezing of Perishable Food-Stuffs 19 4 131
 Solid Carbon Dioxide from Mexican Wells 21 3 171
 MARVEL, C. S., STANLEY G. FORD and H. J. MACINTIRE, Certain Physical and Chemical Properties of Methyl Chloride 14 4 115
 MASSA, R. F., Rating of Household Refrigerating Machines 6 6 432
 MATTHEWS, F. E., Boiler Room Economies.... 2 5 5
 Determining Advantageous Ice Storage Capacity 6 3 196
 Field of Refrigerants 6 6 437
 Improved Cold Storage Methods a Means to Better World Provisioning 5 6 416
 Presidential Address 7 4 324
 Refrigeration Bulletin for War Requirements 4 5 525
 Measuring Actual Capacity—New Calorimeter Scheme for Determining Evaporator Capacity of Domestic-Commercial Machines, L. A. PHILIPP and R. H. SWART 22 4 234
 Measuring Instruments, Standardizing of, JAMES ELY T5 189
 Measurement of Carbon Dioxide in a Refrigeration System, B. H. JENNINGS 27 4 195
 Meat, Mass Production of, Needs Thousands of Tons of Cooling, ROBERT F. WHEATON.. 25 6 316
 Meat, The Refrigeration of, DR. ING. WALTHER TAMM 20 4 229

M

Vol. No. Page

Meat Refrigeration, Its Literature and Methods of Analysis (The Determination of Storage Conditions), P. K. BATES and M. E. HIGHLANDS 27 6 299
 Meats, How to Keep Retail—A New Series of Investigations on an Old Problem in Commercial Refrigeration, R. E. KING.... 27 6 303
 Meat Works, Air Batteries as Applied to Refrigeration in New Zealand, W. G. CROLL 9 5 158
 Mechanical Refrigeration in the Sugar Industry, CHARLES DOMBITSKY 20 6 354
 Mechanism of Heat Transfer Through Insulation, W. J. KING 20 3 169
 MEEKER, HERBERT J., Characteristics of Centrifugal Pumps 14 1 1
 Metal Foil, Properties of as an Insulating Material, J. L. GREGG 23 5 279
 Metal Heat Insulation, JOSEPH LEGRAND..... 27 2 78
 Metering Air by Psychrometry, DONALD B. KNIGHT 25 4 198
 Meters in Refrigerating Plants, Flow, H. D. FISHER 6 6 409
 Meters in Refrigerating Tests, Reliability of Fluid, L. S. MORSE 10 1 1
 Methyl Chloride, Certain Physical and Chemical Properties of, H. J. MACINTIRE, C. S. MARVEL and STANLEY G. FORD 14 4 115
 METRIC SYSTEM, Rule of Thumb, FREDERICK L. ROBERTS 19 4 129
 MEYERS, C. H., C. S. CRAGO and C. S. TAYLOR, Vapor Pressure of Ammonia 6 5 307
 MEYERS, C. H., and R. S. JESSUP, Specific Volume of Superheated Ammonia Vapor 11 10 345
 and H. T. KENNEDY, Critical Temperature Measurements on Carbon Dioxide in Small Capillaries 15 5 125
 and E. F. MUELLER, Refrigerants—Mollier Chart 9 10 295
 and E. F. MUELLER, Total Heat Diagrams for Ammonia 7 6 419
 and M. S. VAN DUSEN, The Vapor Pressure of Liquid Carbon Dioxide 13 6 180
 The Design of Equipment for Measuring the Specific Volume of Carbon Dioxide Vapor 15 6 157
 MIGEOT, WILLIAM P., Checking Corrosion in Brine Tanks 23 6 365
 Migration of Moisture in Refrigeration Insulation, HAL W. MCPHERSON..... 24 } 4 209
 } 5 277
 MIKKELSON, W. H., Modern Development in Insulation 12 1 7
 MILNER, EUGENE D., Summer Air Conditioning of Residences 23 3 147
 Milk Cooling on the Dairy Farm with Absorption Machines, D. F. KEITH 21 6 426
 Milk Cooling Plants, Farm, and Their Performance, JOHN E. NICHOLAS 28 4 194
 Milk Industry, Engineering and the, PAUL S. STAPLES 27 1 9
 Milk, Irradiation of, GEORGE W. PUTNAM..... 27 3 133
 Milk Plants, Refrigeration in Farm, JOHN E. NICHOLAS 22 6 379
 MILLER, ERNEST B., The Development of Silica Gel Refrigeration 17 4 103
 MILLER, EDWARD F., Flow of Superheated Ammonia Gas in Pipes 3 2 26
 MILLER, L. F., Effect of Moisture on the Heat Transmission in Insulating Materials.... 14 5 141
 MILLER, S. W., Practices and Principles of Fusion Welding 6 2 114
 Principles and Practices of Fusion Welding.. 5 3 168
 The Rationale of Safe Welded Unfired Pressure Vessels 12 2 54
 Minneapolis Auditorium, The Cooling and Ventilation of the, S. C. BLOOM..... 13 10 295
 MISKELLA, WILLIAM J., New Developments in Finishing—As Related to Refrigerators... 17 6 173
 Misleading Propaganda on Refrigerants, J. B. CHURCHILL 21 4 269
 MITCHELL, TERRY, Fifty Years' Development in Refrigerating Machinery 23 4 234
 MITCHELL, TERRY, Ice Plant Design..... 19 2 65
 MITCHELL, TERRY, Industry Finds Air Conditioning Indispensable 25 6 328
 Mixer, Water and Ammonia, H. DANNENBAUM 3 6 16

M

	Vol.	No.	Page
Mixtures of Air and Saturated Water Vapor, New Tables, CLAUDE A. BULKELEY.....	25	1	27
Model of Cold Storage Plant, BERTHOLD J. AUDSLEY	21	1	43
		5	351
Modern Ice Plant Economies, R. T. BRIZZOLARA and E. C. SOARES.....	21	2	101
Moisture Absorption, Mechanism of in Insulation, A. A. BERESTNEFF.....	23	6	343
Moisture on Heat Transfer, Effect of, SIEGFRIED RUPPRICHT	27	4	182
Mollier Psychrometric Chart—Developed for the English System, FERDINAND KEPPLER...	27	2	71
		3	130
MOORE, ROY C., Leather Bets for the Transmission of Power	18	2	51
MORSE, L. S., Reliability of Fluid Meters in Refrigerating Tests	10	1	1
	10	11	385
MOSHER, WILLIAM E., Properties of Saturated and Superheated Ammonia.....	T8		214
Motor-Compressor Unit, The Zorzi Enclosed, GLENN MUFFLY	25	5	244
Motor Driven Ductless Distribution of Cold Air (In Small Commercial Applications), H. HARRISON	25	5	250
Motors Connected to Reciprocating Compressors, Flywheel Effect of Synchronous, R. E. DOHERTY	6	3	159
Motors for Ammonia Compressors, Starterless Induction, J. LEOVICI	8	5	398
Motors for Driving Ammonia Compressors, Synchronous, TRUMAN HIBBARD.....	4	4	388
Motors to Carbon Dioxide Compressors, Some Problems in the Application of Direct Connected Synchronous, D. W. McLENEGAN...	13	7	220
Motors, Two Speed Synchronous, R. C. ALLEN and C. C. SHUTT.....	24	1	26
MOZ, W. H., Some Rules and Formulae for the Refrigeration Engineer	11	2	26
The Compression Refrigerating Cycle.....	9	9	267
Thermodynamics of Ammonia Compression	9	4	119
MOUL, J. E., Ice Handling Machinery.....	11	8	289
MOUNT, W. D., Solid Carbon Dioxide.....	23	5	291
MOYER, J. A., Effect of Velocity and Humidity of Air on Heat Transmission Through Building Materials	3	1	7
MUELLER, E. F., and C. H. MEYERS, Refrigerants—Mollier Chart	9	10	295
and C. H. MEYERS, Total Heat Diagrams for Ammonia	7	6	419
Gage Pressures	8	3	225
Measurement of Specific Heat of Superheated Ammonia	9	1	1
Physical Properties of Brines.....	6	1	25
Why Test Refrigerators?.....	18	2	31
MUFFLY, GLENN, A Review of Domestic Refrigeration	25	6	324
The Zorzi Enclosed Motor-Compressor Unit	25	5	244
MULLERGREN, ARTHUR L., Management Control of a Group of Ice Properties.....	23	1	23
Multiple Effect Compression, H. T. WHYTE ..	9	1	10
Multiple Effect Compressors, GARDNER T. VOORHEES	T2		97
MUNTERS, CARL G., and BALTZER VON PLATEN, The Production of Low Temperatures....	12	5	142
MURPHY, J. J., The Rate Your Power Company Should Give You.....	19	4	121

N

NATHAN, DR. L., A Modern System of Beer Production	26	4	177
National Broadcasting Company's New Headquarters—Design and Operation of Air Conditioning System, O. B. HANSON.....	27	6	293
Natural Aspects of Insulation, GALE T. PEARCE	19	3	99
Natural Gas Engine Power in the Refrigerating Plant, C. T. BAKER.....	26	2	65
Natural Gas in the Refrigerating Plant, F. W. LAVERTY	24	3	147
NEESON, C. R., Design of Ice Plants	22	5	299

N

	Vol.	No.	Page
High Speed Ammonia Compressors.....	3	5	15
New Type Ice Plant Building Design.....	15	5	119
Power for Ice Plant Drive.....	6	2	109
Oil Engine Compression Costs.....	23	3	168
Room Cooler Design—Requirements for Self-Contained Units and a Description of a New Machine	26	5	233
NEFF, PETER, Ammonia Compressor Safety Devices	T8		101
Carbonic Anhydride Refrigerating Machine	5	3	153
Discussion of Owner's Method of Determining Rating	5	4	266
Presidential Addresses	7	1	56
What is the Meaning of the Term Efficiency?	T9		31
New Applications of Low Temperature Freezing, FRANK ZUMBRO.....	T9		107
New Applications of Stainless Metals, C. C. SNYDER	T5		65
New Brine Properties, W. POHLMANN.....	21	4	259
New Containers for Refrigerants, SIEGFRIED RUPPRICHT	23	4	219
New Era in Refrigeration, A. (Presidential Address), VAN R. H. GREENE.....	23	1	28
Newest Methods in Dairy Refrigeration, PAUL S. STAPLES, AMOS J. VROMAN, JOHN E. NICHOLAS	23	5	293
New Insulation Studies, HERBERT GEORGE.....	12	6	184
NEWKIRK, BURT L., Lubrication Technique....	27	1	9
NEWLEAN, H. R., Transportation Economics of the Refrigerator Car.....	23	3	155
New Tables—Mixtures of Air and Saturated Water Vapor, CLAUDE A. BULKELEY.....	24	5	268
New Tables of Refrigerant Gases, J. B. CHURCHILL	7	5	383
NICHOLAS, A. J., A Comparison of Standard Flow Meters	25	1	27
NICHOLAS, JOHN E., Refrigeration in Farm Milk Plants	26	2	85
Speed and Uniformity Tests with a Dairy Farm Cooling Unit.....	14	4	121
Farm Milk Cooling Plants and Their Performance	22	6	379
NICHOLS, J. T., Testing Sheet Steel Insulation	27	1	15
NICHOLLS, P., Economic Thickness of Insulation in the Refrigerating Field.....	28	2	73
Status of Heat Transmission Knowledge and Data in the Refrigeration Field.....	28	2	76
Notes on the Formation of Ice on Pipe Surfaces, F. RASORI.....	9	5	152
NOYES, JOHN D., Cost of Electric Power and Central Station Power Rates.....	13	9	276
NRA, Refrigeration under the—Business and the Sovereign State, CROSBY FIELD	25	1	21
NUSBAUM, LEE, Refrigeration in Air Conditioning	11	1	14
	28	4	175
	7	2	170

O

OAKLEY, ALFRED, and GEORGE A. HORNE, Tests of a Two Stage Double Inlet Ammonia Compressor	19	6	181
OAKLEY, A. W., Central Station Pipe Line Refrigeration	11	7	258
Obsolescence of Refrigerating Machinery, REINHARD M. FISCHER	25	2	92
O'CONNOR, G. F., C. S. CRAGOE, and E. C. McKELVEY, Specific Volume of Saturated Ammonia Vapor	9	8	239
Officers, Past and Present, of the A.S.R.E. ..	28	6	322
Oil Engine Compression Costs, C. R. NEESON	23	3	168
Oil Engine Driven Ammonia Compressors, F. W. GREEN	12	9	311
Oil Engine for Ice Plant Service, LOUIS K. DOELLING	2	2	21
Oil Industry, Application of Refrigeration to the, N. H. HILLIER, JR.	16	2	35
Oil Refining, Refrigerating Requirements for, HARRIS PRUITT	21	5	341
Oil Refining, Refrigeration in, J. M. WADSWORTH	21	2	95

O

	Vol.	No.	Page
Oils as Applied to Refrigerating Machinery, Physical Characteristics of Lubricating, W. F. OSBORNE	7	2	161
OLCHOFF, MAURICE, Air Conditioning in the Bakery	25	1	9
Refrigeration in Air Conditioning for Comfort	22	3	163
OLDHAM, BERNARD C., The Design of Compressors	20	2	83
A Dynamometric Chart for Compressors.....	24	2	94
OPHULS, FRED, Ammonia Condensers.....	1	1	47
	2	4	48
Analysis of Can Ice Freezing Tanks.....	5	1	1
Manufacturing Expense of Ice Making Plants	13	9	271
Refrigeration in the Brewery.....	25	2	73
The Electrically Driven Ice Plant.....	11	11	377
Trends in the Practice of Refrigerating Engineering	19	1	1
and VANR. H. GREENE, The Rate of Heat Transfer in Double—Pipe Brine Coolers .	2	2	45
and GEORGE A. HORNE, Recent Improvements in Refrigerating Apparatus	11	1	1
	12	12	406
Orifice Coefficients, Effect of Pipe Length on, ARTHUR J. WOOD.....	15	2	35
Origins of Air Conditioning, DAVID L. FISKE	2T	3	123
ORMSBY, ERLE S., Men and Machinery in the Ice Plant	6	2	103
ORNITZ, N. B., The Prevention and Retardation of Corrosion in Refrigerating Systems...	13	2	64
OSBORNE, NATHAN S., An Aneroid Calorimeter for Specific and Latent Heats	4	2	103
and H. C. DICKINSON, An Aneroid Calorimeter	1	3	5
and H. C. DICKINSON, The Specific Heat and Heat of Fusion of Ice.....	1	3	32
and M. S. VAN DUSEN, Latent Heat of Pressure Variation of Liquid Ammonia.....	4	2	167
and M. S. VAN DUSEN, Latent Heat of Vaporization of Ammonia.....	4	2	172
H. F. STIMSON, T. S. SLIGH, JR., and C. S. CRAGOE, Specific Heat of Superheated Ammonia Vapor.....	10	5	145
OSBORNE, W. F., Physical Characteristics of Lubricating Oils as Applied to Refrigerating Machinery	7	2	161
OTTENHEIMER, REUBEN E., Dispensers for Frozen Foods	20	2	102
Ozone and Cold Storage, FRANK E. HARTMAN..	11	5	173
Ozone in Cold Storage Plants, WILLIAM J. LOHMAN	17	4	122
Ozone to Cold Storage, Modern Trend in Applying, FRANK E. HARTMAN	11	12	409
Ozone, Disappearance of in Cold Storage Room, ARTHUR W. EWELL.....	20	6	358
Ozone, The Decomposition of—New Analyses and Their Application, ARTHUR W. EWELL	26	2	68

P

Packing House Refrigerating Operations at Maximum Efficiency, O. A. Anderson.....	13	3	85
Pak-Ice Machine, WILLIAM H. TAYLOR.....	22	5	307
PALMER, C. C., A Dry Air Refrigerator Car...	19	2	67
Ethyl Chloride Refrigeration.....	T4		73
Paper, The Use of, as Refrigerator Insulation, J. L. KNIGHT.....	22	2	88
PARSONS, W. EVERETT, A Future for the Ice-Manufacturing Industry	T2		44
Presidential Address	T2		41
The Practical Value of Indicating the Ammonia Compressor	T1		137
Passenger Cars, Cooling—A Review of Practice and Discussion of a New System Using Ice, WALLACE HERBLEIN	23	5	235
Passenger Cars, Steam Ejector System for Cooling, R. W. WATERFILL	24	3	137
Passenger Trains, Air Conditioning System for, JAMES EDMUND BOYACK	22	2	83
Patent Situation in Enclosed Motor Refrigeration, H. R. VAN DEVENTER.....	21	1	29
PAULSEN, E. H., Refrigeration in the Brewery	25	6	319

P

	Vol.	No.	Page
PEARCE, GALE T., Natural Aspects of Insulation	19	3	99
Recent Improvements in Refrigerator Construction	21	4	265
Testing Refrigerator Cabinets.....	24	3	158
PEFFER, HELEN H., Refrigeration, Food Habits, and Food Production	28	3	126
PENNEY, EDGAR, Experiments With Binary Refrigeration	T2		64
Plate System and Can System in Ice Plants..	T1		55
What Makes for Success in Refrigerating Engineering?	T4		47
PENNINGTON, M. E., Balsa.....	6	4	256
Development of a Standard Refrigerator Car	6	1	1
Notes on Small Insulated Containers.....	8	5	393
The Relative Importance of Handling and Refrigeration in the Preservation of Perishable Foodstuffs	T7		188
PENWELL, LEWIS, System of Transit Refrigeration and Heating	7	2	140
PETERSEN, PAUL W., Food Freezing Temperatures	21	6	422
Perishables, Gas Storage of.....	28	4	181
Perishable Products, Cold Storage Requirements for the Refrigeration of, W. T. ROBINSON	T1		71
Perishable Products for Transportation, Recent Investigations in the Handling of, S. J. DENNIS	T3		69
Perishable Shipment, The Railroads and, J. W. ROBERTS and MARION B. RICHARDSON.....	18	4	97
PERSON, H. S., Man and the Machine.....	20	4	234
PETERSEN, PAUL W., A Modern Fish Freezing Plant	10	12	425
Methods of Freezing Fish.....	9	1	7
Quick Freezing of Fish Fillets.....	20	4	217
Petroleum Refining, Thermal Processes in, RUDOLPH PLANK	16	6	163
	13	10	301
	13	12	355
	14	2	61
	14	5	145
	15	1	9
PHILIPP, L. A., and C. C. SPREEN, Household Refrigeration	13	12	355
	14	2	61
	14	5	145
	15	1	9
PHILIPP, L. A., and B. E. TIFFANY, Ebullition of Refrigerants	25	3	140
Thermodynamics of Sulfur Dioxide—Oil Systems	27	5	248
PHILIPP, L. A. and R. H. SWART, New Scheme for Determining Evaporator Capacity of Domestic-Commercial Machines	22	4	234
Photographic Records of Heat Transfer, and Their Analysis, SIEGFRIED RUPPRICHT.....	26	1	19
PIPE			
In Egg Rooms, Direct Expansion, NELSON J. WAITE	7	1	41
Joints, Thermit Welded, R. L. BROWNE.....	7	6	452
Line Refrigeration, Central Station, A. W. OAKLEY	11	7	258
Line Refrigeration, JOHN E. STARR.....	T1		41
Line Refrigeration, Some Notes on, R. H. TAIT	10	4	113
Pipe Surfaces, Ice Formation on, S. LEWIS ELMER, JR.	24	1	17
Pipe Surfaces, Notes on the Formation of Ice on, F. RASORI	25	1	21
Refrigerating Efficiency of, ERLE S. ORMSBY	5	5	377
Steel vs. Wrought Iron Pipe in Refrigerating Work, P. DE C. BALL.....	T7		70
PLANK, RUDOLPH, Thermal Processes in Petroleum Refining	16	6	163
PLANTS			
Depreciation, GEORGE E. WELLS.....	6	5	369
Design, Value of Uniformity in, E. K. STRAHAN	20	4	236
Drive, Electric Power for, CHARLES R. NEESON	6	2	109
Economy of the Refrigeration Power, VICTOR J. AZBE	4	4	368
Investments, Ice, GEORGE E. WELLS.....	5	3	1
	6	2	139
Renovation with Compressor Valves, J. H. H. VOSS	28	5	248

P

P

	Vol.	No.	Page
Men and Machinery in the Ice, ERLE S. ORMSBY	6	2	103
PLATEN, BALTZAR VON, and CARL G. MUNTERS, The Production of Low Temperatures.....	12	5	142
POHLMANN, W., New Brine Properties.....	23	1	28
Politics of Ice?—A Reply to Mr. Field, CLIFFORD F. HOLSKE	28	5	251
POPE, FREDERICK, Some Notes on Ammonia Synthesis	12	7	209
and J. RUSSELL BROWN, The General Design of Refrigeration Cabinets of the Ice Box, Household Type	16	1	11
Portable Refrigerating Plant of the United States Department of Agriculture, The, S. J. DENNIS	T4		236
Portable Units, Cooling With, D. F. KEITH....	20	6	361
PORTER, MILDRED B., Temperature and Ice Consumption in an Ice-Cooled Refrigerator as Affected by Room Temperature.....	18	4	93
Poultry, Preservation of—Quick Freezing vs. Sharp Freezing, M. T. ZAROTSCHENZEFF..	26	6	311
POWELL, G. HAROLD, The Transportation of Fruit in Refrigeration.....	T1		82
POWELL, J. R., Synthetic Ammonia.....	12	6	180
Power and Condenser Water Costs, Balancing Compressor, R. W. WATERFILL.....	14	3	93
Power for Ice Plant Drive, Electric, CHAS. R. NEESON	6	2	109
Power Rate; The Rate Your Power Company Should Give You, J. J. MURPHY.....	19	4	121
Power Requirements for the Manufacture of Solid Carbon Dioxide, F. W. RABE.....	22	6	388
Power Requirement for a Small Compressor, HENRY F. IRVING	24	1	12

PRECOOLING

Combining Water and Liquid, Ice Plant Design, TERRY MITCHELL	19	2	65
Fruits and Vegetables, J. W. ANDREWS.....	11	4	143
Fruits and Vegetables before Shipment, C. T. BAKER	9	11	333
Lettuce and Celery, H. J. RAMSEY and E. L. MARKEL	4	5	507
Plant, San Bernardino, C. M. GAY	2	2	5
}	2	4	40
Recent Applications of Refrigeration, C. P. GOREE, JR., and L. R. GRAVES.....	18	2	37
PRESCOTT, S. C. Bacteria as Affected by Temperature	23	2	91
Preservation of Foods by New Quick-Freezing Methods, CLARENCE BIRDSEYE.....	25	4	185
Preservation of Poultry—Quick Freezing vs. Sharp Freezing, M. T. ZAROTSCHENZEFF..	26	6	311
Pressure Losses of One Fluid as a Criterion of the Pressure Losses for any Fluid, H. J. MACINTIRE and GENE EDWARDS.....	26	4	185
Pressure Relief Diaphragms, H. F. STIMSON...	7	5	380
Pressure—Total Heat Chart for Dichlorodifluoromethane, WALTER B. LAWRENCE.....	24	5	286
Pressure Vessels, Oxy-Acetylene Welding of Ammonia Pipe Lines, Coils and, C. WILKIE	9	11	325
Pressure Vessels, Tests, on Welded, L. H. ROLLER	12	7	215
Pressure Vessels Unfired, The Rationale of Safe Welded, S. W. MILLER.....	12	2	54
Pressures, Gage, E. F. MUELLER.....	8	3	225
Producer, A Gas Operated Refrigerator Plant, A, RODERICK H. TAIT	T6		39
Production of Low Temperatures, The, BALTZAR VON PLATEN and CARL G. MUNTERS.....	12	5	142
Profits, The Interrelation of Sales and, C. L. BARNUM	15	1	15
Progress During 1932 in Comfort Cooling with Ice	24	5	265
Properties of Metal Foil as an Insulating Material, J. L. GREGG.....	23	5	279
PRUITT, HARRIS, Refrigerating Requirements for Oil Refining	21	5	341
Public Lockers for Frozen Foods, HENRY W. YOUNG	28	2	83
Pump, A New Rotary, C. E. ANDERSON	26	3	143

Vol. No. Page

Pumps, Characteristics of Centrifugal, HERBERT J. MEEKER	14	1	1
PURDY, EUGENE H., A Summary of the "By-Pass" Patents	25	5	263
PUTNAM, GEORGE W., Irradiation of Milk.....	27	3	133
Psychrometric Chart for High Altitudes.....	22	2	104
Psychrometric Chart, A New.....	23	2	97
Psychrometric Chart, Radiant Heat and the, A. A. BERESTNEFF	27	2	80
Psychrometric Chart, The Mollier—Developed for the English System, FERDINAND KEPPLER	27	2	71
}	3	136	
Psychrometric Data, The Present State of, FREDERICK G. KEYES and LEIGHTON B. SMITH	27	3	127
Psychrometry, Metering Air by, DONALD B. KNIGHT	25	4	198

Q

Quick Freezing of Fish Fillets, PAUL W. PETERSEN	20	4	217
Quick Freezing and Marketing, W. R. TUCKER	20	3	149
Quick Freezing of Perishable Food-stuffs, JAMES WELLFORD MARTIN.....	19	4	131
Quick-Freezing, Preservation of Foods by New Methods, CLARENCE BIRDSEYE.....	25	4	185
Quick Freezing, Retaining Meat Color in, DR. ING. R. HEISS	22	2	95
Quick Freezing Temperatures, E. W. GALLENKAMP	20	1	30

R

RABE, F. W., Power Requirements for the Manufacture of Solid Carbon Dioxide.....	22	6	388
Solid Carbon Dioxide as a Refrigerant.....	19	5	143
Radiant Heat and the Psychrometric Chart, A. A. BERESTNEFF	27	2	80
Radiator Sections for Ammonia, Heat Transfer in Cast Iron, H. J. MACINTIRE.....	11	6	195
Radiator Sections for Direct Expansion of Ammonia, Flexibility of Cast Iron, H. J. MACINTIRE	9	6	174
Railway Car Icing Stations, C. T. BAKER.....	19	4	106
Railway Man's View of Refrigeration, A. H. M. WIGNEY	12	11	359
RAMSEY, H. J., and E. L. MARKEL, Precooling Lettuce and Celery	4	5	507
RASORI, F., Notes on the Formation of Ice on Pipe Surfaces	25	1	21
RASSBACH, H., The Value of the Flooded System and its Application to Ice-Making and Refrigerating Plants	T5		95
Rate Your Power Company Should Give You, The, J. J. MURPHY.....	19	4	121
Rating, Discussion of Owner's Method of Determining, PETER NEFF.....	7	1	56
RAUTENSTRAUCH, WALTER, National Reconstruction	27	3	140
Raw Water Ice Plant, Motor Driven, GEORGE E. CHAMBERLIN	5	2	97
Rayon, Air Conditioning in the Making of, W. C. GILES	27	5	255
Rayon Industry, Refrigeration in the, H. O. DAVIDSON	17	6	178
Recent Developments in Heat Transmission, W. J. KING	24	2	76
Recent Graduates are Thinking, REGINALD DEVOLSON WOOD	28	5	253
Recent Improvements in the Mercury Gas Compressor—Based on the Achimedes Screw Pump, J. G. DE REMER and G. W. DUNHAM	26	6	307
Recent Improvements in Refrigerator Construction, GALE T. PEARCE	21	4	265
Recent Progress in Air Conditioning, WILLIS H. CARRIER	21	3	187
RECKLINGHAUSEN, MAX VON, The Sterilization of Water by Ultra-Violet Rays.....	T9		112

R

	Vol.	No.	Page
RECTOR, ENOCH, High Rate Heat Transmission Through Externally Extended Surfaces of High Duty Steam Boilers.....	3	6	20
REECE, W. W., Problems in Bakery Air Conditioning	27	4	192
Refrigeration as Applied to the Baking Industry	10	6	205
Refrigeration for the Baker.....	19	6	174
REED, JOHN C., and EDGAR E. AMBROSIUS, The Flow of Superheated Ammonia.....	19	2	45
Volumetric Efficiency of a Vertical Single-Acting Ammonia Compressor	21	3	176
REES, R. I., Training the Young Engineers in Industry	3	95	
REFRIGERANTS—(See also fluid in question)			
Automatic Control of in Cooling Units, THOMAS W. CARRAWAY.....	22	2	99
Comparison of Thermodynamic Characteristics of Various, W. H. CARRIER and R. W. WATERFILL	10	12	415
Control, Automatic, C. P. GOREE, JR.....	20	5	295
Ebullition of, L. A. PHILIPP and B. E. TIFFANY	25	3	140
Field of, F. E. MATTHEWS.....	6	6	437
Flow, Developments in Automatic Control of, EARL E. SNADER	23	1	21
Flow of Superheated in Copper Tubing, J. E. LINEBAUGH	26	2	82
Gases, New Tables of, J. B. CHURCHILL.....	26	2	85
The Hazards of, HARRY D. EDWARDS.....	19	3	73
Misleading Propaganda on, J. B. CHURCHILL	21	4	269
Mollier Chart, E. F. MUELLER and C. H. MEYERS	9	10	295
New, J. B. CHURCHILL	19	2	60
New Containers for, SIEGFRIED RUPPRICHT... ..	23	5	293
Properties of, H. D. EDWARDS	11	3	95
For Small Units, Comparison of Various, J. R. HORNADAY	13	12	363
Some Properties of Hydro-Carbon, H. D. EDWARDS	8	6	488
Thermodynamic Properties of Butane, Isobutane and Propane, L. I. DANA, A. C. JENKINS, J. N. BURDICK, and R. C. TIMM....	12	12	387
What the, Have Contributed	28	6	305
Refrigerated Auto Trucks, HARVEY B. LINDSAY	25	6	333
REFRIGERATING			
Fluids, JOHN E. STARR.....	9	3	93
Fluids, Control Valves for, H. T. LANGE....	26	1	17
Industries, The Young Engineer in, ALEXANDER R. STEVENSON, JR.....	21	4	256
Industries, The, DAVID L. FISKE.....	25	6	304
Machine Companies, What the, Have Contributed	28	6	295
Machinery, Fifty Years' Development in, TERRY MITCHELL	23	4	234
Machinery, Obsolescence of, REINARD M. FISCHER	25	2	92
Plant, Comfort Cooling in a, R. H. SMITH....	26	3	152
Plants, Safe Practices in, GEORGE B. BRIGHT	23	1	14
Plants, Diesel Power in, GEORGE M. KLEUCKER	24	3	156
Practice with Reference to Lubrication, J. K. L. WEBLING	28	4	185
Requirements for Oil Refining, HARRIS PRUITT	21	5	341
Apparatus, Recent Improvements in, FRED OPHULS and GEORGE A. HORNE.....	11	1	1
	12	2	406
Efficiency by Temperature and Pressure Readings, Determining, J. H. H. VOSS.....	9	10	307
REFRIGERATING ENGINEER			
What Does the, Need to Know? CHARLES W. BERRY	15	2	41
What the, Should Know About Investment Banking, A. E. BRYSON	14	3	89
The, JOHN E. STARR	2	4	15
REFRIGERATION			
Absorption with Solid Refrigerants, R. M. BUFFINGTON	26	3	137
In Air Conditioning for Comfort, MAURICE OLCHOFF	22	3	163
In the Bakery, A. W. ARCHER	22	4	245

R

	Vol.	No.	Page
In the Bakery, A. R. FAYED	21	4	251
On Board Ship, IAN MCKENZIE	23	1	11
In the Brewery, FRED OPHULS	25	2	73
The Control Factor in Brewing, A. B. STICKNEY	26	2	70
An Essential in Candy Manufacture, TRESPER CLARKE	20	4	219
Is Expensive—The Economic Limitations of Air Conditioning, CLIFFORD M. HOLSKE....	27	6	289
In Farm Milk Plants, JOHN E. NICHOLAS...	22	6	379
Food Habits and Food Production, HELEN H. PEPPER	28	3	126
For the Farmer, D. F. KEITH	25	6	327
and the Fishing Industry, D. B. FINN	20	5	287
Has a Strike, WALTER S. SCHINDLER	28	1	7
Has Built the Banana Industry, C. F. GREEVES-CARPENTER	27	2	65
For Heating and Cooling, A. R. STEVENSON, JR. (Discussion)	23	4	218
History of—Some Authentic Notes, CARL C. CURTISS	25	2	100
In the Citrus Industry, C. F. GREEVES-CARPENTER	28	2	66
Is Not Expensive, CARROLL SHIPMAN	28	1	16
Is Not New, DAVID L. FISKE	24	4	201
Next Ten Years, S. C. BLOOM	19	5	141
In Oil Refining, J. M. WADSWORTH	21	2	95
Plant Chemistry, CLIFFORD B. HILL	25	4	216
Progress During 1931, DAVID L. FISKE....	22	6	371
Service; Methods and Tools, L. K. WRIGHT	26	1	30
Under the NRA—Business and the Sovereign State, CROSBY FIELD	28	4	175
REFRIGERATOR(S)			
As Affected by Room Temperature, Temperature and Ice Consumption in an Ice Cooled, MILDRED B. PORTER	18	4	93
Cabinets, Measurement of Rate of Heat Flow Into, W. J. ETINGER and H. W. MCPHERSON	16	6	169
Cabinets, Measurement of Rate of Heat Flow Into, (Discussion), W. J. ETINGER and H. W. MCPHERSON	18	1	13
Cabinets of the Ice Box, Household Type, The General Design of, HAROLD L. POPE and J. RUSSELL BROWN	16	1	11
Cabinets, Testing, GALE T. PEARCE	24	3	158
Cabinet—New Heat Flow Studies, J. L. FINCK and M. S. VAN DUSEN	22	5	310
	22	6	385
Construction, Recent Improvements in, GALE T. PEARCE	21	4	265
Design and Construction, W. A. DRUSHEL..	15	4	110
Domestic, A New Method of Load Testing for, H. A. WHITESEL	27	5	240
Effective Moisture in the, CHARLES O. DEUVEL, JR.	15	4	89
Factory Testing of, R. T. FRAZIER	20	3	159
Ice Baskets for Domestic, CHARLES F. BELSHAW	20	5	291
Icing Methods, C. F. BELSHAW	19	1	12
Life Tests and, R. T. FRAZIER	28	1	18
The Mercury Ejector, L. F. WHITNEY	24	3	143
Mounting Insulation in, W. F. GRUPE	15	5	136
New Developments in Finishing—As Related to, WILLIAM J. MISKELLA	17	6	173
The Nation's, E. T. DODDS	25	6	312
Research on Home, LOUISE STANLEY	16	2	41
Retaining Meat Color in Quick Freezing, DR. ING. R. HEISS	22	2	95
Testing Iced Under Two Codes, CHARLES H. ROE and GORDON THOMPSON	21	2	106
Testing Domestic, W. M. TIMMERMAN and H. A. WHITESEL	15	6	151
The Application of Insulation to Domestic, J. H. BRACKEN	16	5	132
The Household Ice, R. T. FRAZIER	18	3	59
Volume, N. E. M. A. Proposes Standard Methods for Computing (Review)	22	3	180
Why Test? E. F. MUELLER	18	2	31
REFRIGERATOR CAR(S)			
Development of a Standard, M. E. PENNINGTON	6	1	1
Design, Practice In, E. A. SWEeley	18	3	67
A Dry Air, C. C. PALMER	19	2	67

R	Vol. No.	Page
REFRIGERATOR CARS—Continued		
Economical Thickness of Insulation in, ARTHUR J. WOOD and P. X. RICE	10 10	357
Loading the, A. J. LORION	20 3	151
Surface Temperatures, W. J. HUKILL	23 4	225
Retrospective and Prospective, J. H. BRACKEN	T9	137
Retrospective and Prospective, EUGENE F. McPIKE	T9	125
Some Notes on Railway, W. H. WINTER-ROWD	9 2	62
Study of Heat Transmission in, J. H. BRACKEN	16 3	82
REID, WALTER C., Furs and Fabrics in Cold Storage	T1	95
Research Activity in Refrigeration, Education and, E. F. BURTON	15 4	93
Research Administration—J. S. BEAMENSDERFER and A. J. SELER	27 4	177
Residence Comfort Cooling, GEORGE BRIGHT..	25 6	311
Residence Cooling Problem, The, A. C. WIL-LARD and A. P. KRATZ	26 2	73
REUSCHLINE, GEORGE L., What Becomes of the Ammonia in Refrigerating Systems	5 3	161
	6 2	131
RICE, P. X., and ARTHUR J. WOOD, Economical Thickness of Insulation in Refrigerator Cars	10 10	357
RICHARDSON, MARION B., and J. W. ROBERTS, The Railroads and Perishables Shipment..	18 4	97
ROACH, A. G., see ROYDEN, H. N.		
ROBERTS, FREDERICK L., Rule of Thumb	19 4	129
ROBERTS, J. K., E. L. CHAPPELL and R. P. RUSSELL, Corrosion in the Refrigerating Industry	13 7	209
ROBERTS, J. W., and MARION B. RICHARDSON, The Railroads and Perishables Shipment..	18 4	97
ROBINSON, C. S., Analysis of Cooling Tower Operation	10 6	201
Design of Cooling Towers	9 6	169
ROBINSON, M. G., The Heat Balance Method of Testing Centrifugal Compressors	12 10	327
ROBINSON, M. P., Preparing Water to be Frozen	10 2	61
ROBINSON, W. T., Cold Storage Requirements for the Refrigeration of Perishable Products	T1	71
ROE, CHARLES H., and GORDON THOMPSON, Testing Iced Refrigerators Under Two Codes	21 2	106
ROELKER, H. B., The Allen Dense Air Refrigerating Machine	T2	52
ROGERS, FRED E., Oxy-Acetylene Welding of Refrigerating Apparatus	7 6	432
ROLAFF, WALTER G. E., Rotary Compressors in Mechanical Refrigeration	16 5	127
ROLLER, L. H., Tests on Welded Pressure Vessels	12 7	215
The First Ten Years of Horizontal High Speed Ammonia Compressors	13 1	1
Room Cooler Design—Requirements for Self-Contained Units and a Description of a New Machine, C. R. NEESON	26 5	233
RORISON, W. B., Application of Refrigeration in the Dairy	10 8	287
ROSEBUSCH, HERMAN A., Brewing—The Present Situation	26 5	251
ROSECRANS, CRANDALL Z., Electrical Measuring Instruments in Refrigeration	18 4	85
Rotary Compressor and Its Application in Mechanical Refrigeration, The, W. G. E. ROLAFF	7 1	1
Rotary Compressor, Low Temperatures and the, HARRY SLOANE	23 6	339
ROWLEY, F. B., Some Results of Heat Transmission Research	12 11	366
ROYDEN, H. N., and A. G. ROACH, Cooling Concrete at Boulder Dam	28 1	11
Rubber, Refrigeration in the Manufacture of, J. H. VANCE	8 5	405
RUDDICK, J. A., The Refrigeration of Dairy Products	T5	87
RUDE, T. M., A New Automatic Welding Process	25 5	247
RUFF, A. W., and J. G. BERGDOLL, Solid Carbon Dioxide Refrigeration Control.....	23 6	347

R	Vol. No.	Page
Rule of Thumb, FREDERICK L. ROBERTS.....	19 4	129
RUPPRICHT, SIEGFRIED, Effect of Moisture on Heat Transfer	27 4	182
Frozen Foods Display Equipment	21 3	191
Is It Possible to Over-Insulate?	28 3	131
New Containers for Refrigerants	23 5	292
Photographic Records of Heat Transfer and Their Analysis	26 1	19
Rural Refrigeration, W. T. ACKERMAN	17 1	1
Rural Refrigeration, MARTIN R. BORGER	19 2	37
RUSSELL, R. P., J. K. ROBERTS and E. L. CHAPPELL, Corrosion in the Refrigerating Industry	13 7	209
Russia, Present Status of the Refrigeration Industry in, NICOLAI BORODIN	6 3	190
RYAN, EVERETT R., How Will Air Conditioning be Marketed	28 2	63

S

SACKETT, R. L., Invention and the Scientific Method	18 2	47
Safe Practices in Refrigerating Plants, GEORGE B. BRIGHT	23 1	14
Safety Code, The Refrigeration, H. D. EDWARDS	28 5	231
Safety Codes, What's Next in, JOHN E. STARR	20 5	305
Safety Devices for Household Refrigerating Machines, H. E. WILLSIE	8 1	1
Safety in Refrigeration, ALVIN H. BAER.....	22 6	383
Safety Requirements for Refrigeration, A. M. A. SAHLMANN, F. L., Comfort Cooling on Wheels	27 5	233
SAUSEN, B. R., Spray Cooling Equipment for Ice Plants	10 3	94
SCANLAN, CHESTER J., Performance of Extended Cooling Surfaces	27 4	197
SCATES, PAUL W., The Rate of Ice Melting....	22 1	15
SCHENK, E. S., Manufacturing Costs.....	14 5	139
SCHINDLER, WALTER S., Refrigeration Has a Strike	28 1	7
SCHLINGMAN, PAUL, The Application of Electric Energy to the Modern Ice Making and Refrigerating Plant	11 5	165
SCHOU, THEODORE, Commercializing the Small Synchronous Motor for Direct Connection to Compressors	12 2	47
Present Status of the Synchronous Motor for Direct Connection to Compressors....	9 2	53
The Flywheel Type Synchronous Machine...	11 10	351
SCHROEDER, WILBUR K., Elimination of Organic Products in Air Conditioning	26 6	294
SCHULTZ, J. O., Refrigerating Equipment for Edgewood Arsenal	6 1	46
SCHURMAN, JOHN A., JR., New Cafeteria Cooling Plant Overcomes Space Limitations ..	28 4	194
SCOTT, C. E., The Small Air Conditioning Job..	23 1	15
SCOTT, DUDLEY H., Design and Operation of Ice Skating Rinks	6 4	221
SCOTT, H. G., Present and Future of Domestic Electric Refrigeration	12 10	338
SEALEY, P. T., The Modern Ice Cream Plant..	24 5	283
SELLMAN, F. E., The Gas-Fired Refrigerator..	14 1	9
Service Refrigeration; Methods and Tools, L. K. WRIGHT	26 1	30
Shaft Seals for Small Refrigerating Machines, E. T. WILLIAMS	17 3	73
SHAVER, W. W., Windows—and Their Relations to Air Conditioning Problems	26 3	133
SHERWOOD, T. K., Economic Balances in the Design and Operation of the Ammonia Condenser	13 8	253
Ship, Refrigeration on Board, IAN MCKENZIE	23 1	11
SHIPLEY, THOMAS, Clearance in Single-Acting and Double-Acting Ammonia Compressors	T6	131
Horse Power Per Ton of Refrigeration of Ammonia Compression Machines	T2	154

S			S		
	Vol. No.	Page		Vol. No.	Page
The Comparison of Bids for Ice-Making and Refrigerating Machinery	T3	151	Control of Corrosion in Refrigerating Systems	8 3	216
The State of the Art	T8	41	SPENCER, J. BEAUMONT, The Evaporative Condenser	T7	151
SHIPMAN, CARROLL, Refrigeration Is Not Expensive	28 1	16	Spray Cooling Equipment for Ice Plants, B. R. SAUSEN	10 3	94
SHIPMAN, R. L., Heat Transfer in Coolers and Condensers of the Double Pipe Type	T3	203	Spray Cooling Systems, P. K. LINDSAY	7 4	247
Water Jacketing of Ammonia Compressors	T2	117	Spray Nozzle Cooling Theory and Practice, B. H. COFFEY and G. S. DAUPHINEE	8 5	420
Shipment of Liquid Anhydrous Ammonia and Apparatus for Withdrawing Samples of Ammonia from Cylinders, Manufacture of Cylinders for, F. W. FRERICHS	1 2	50	SPREEN, C. C., Household Refrigeration and Research Work	11 12	416
Shopright and International Convention, OSCAR A. GEIER	24 1	42	and L. A. PHILIPP, Household Refrigeration	13 10	301
Showcase Operation, Some Practical Points in, M. F. GOODHEART	28 2	80	Stainless Metals, New Applications of, C. C. SNYDER	13 12	355
Silica Gel, Freight Car Refrigeration by an Adsorption System Employing, GEO. E. HULSE	17 2	41	Standard Cars Adequate for Frozen Orange Juice	14 2	61
Silica Gel Refrigeration, The Development of, ERNEST B. MILLER	17 4	103	Standard Rating for the Small Commercial Unit, JOHN R. WYLLIE, JR.	14 5	145
Skating Rink Design, The Field of, GEORGE C. FUNK	17 3	71	STANLEY, LOUISE, Research on Home Refrigerators	15 1	9
Skating Rinks, Building Ice, MARTIN R. CARPENTER	21 5	334	Staples, PAUL S., Engineering and the Milk Industry	22 1	25
Skating Rinks, Design and Operation of Ice, DUDLEY H. SCOTT	6 4	221	STARR, JOHN E., Accidents in Refrigerating Plants	16 2	41
Skating Rinks, Ice, M. R. CARPENTER	4 2	204	Engineer as a Business Man	27 1	9
SLIGH, T. S., JR., C. S. CRAGOE, N. S. OSBORNE, and H. F. STIMSON, Specific Heat of Superheated Ammonia Vapor	10 5	145	Fireproof Cold Storage Warehouse Construction	3 5	5
SLOAN, HARRY, Educating and Training the Engineer	9 6	180	Household Refrigerating Machine	5 6	434
Electrically Operated Ice Plant	4 3	269	Insulation Upkeep	T3	132
The Electrically Operated Ice Plant	20 3	164	Pipe Line Refrigeration	5 3	157
Low Temperatures and the Rotary Compressor	23 6	339	Presidential Address	6 1	34
Small Compressor, Power Requirement for, HENRY F. IRVING	24 1	12	Refrigerating Fluids	6 5	372
Small Refrigerating Plants of Less Than One Ton Capacity, Requirements of, MARTIN R. CARPENTER	T1	157	The Commercial Field for Dry Ice	T1	41
SMITH, AUBREY L., Freezing and Melting Points of Fruits and Vegetables	21 4	272	The Refrigerating Engineer	9 3	93
SMITH, E. DILLON, Foreign Markets	28 5	241	What's Next in Safety Codes	16 2	45
The Foreign Trade Situation	28 1	25	Steam Ejector System for Cooling Passenger Cars, R. W. WATERFILL	2 4	15
SMITH, LEIGHTON B., see FREDERICK G. KEYES	27 3	127	Steam Ejector, The, for Industrial Refrigerating Capacities, D. K. DEAN	20 5	305
SMITH, MORGAN B., Corrosion in Refrigerating Systems	T8	155	Stevens, C. H., Electricity for Ice Making and Refrigeration as Supplied by the Central Station	24 3	137
Recent Developments in the Study of Corrosion in Concrete Buildings and Pipe Lines	2 5	25	STEVENSON, A. R., JR., Refrigerating for Heating and Cooling (Discussion)	24 2	73
The Non-Precipitation of Calcium Chloride from Brine by Ammonia	T7	180	The Flywheel Problem in Compressors Direct Connected to Synchronous Motors	28 1	14
The Protection of Refrigerating Apparatus Against Corrosion	T7	106	The Young Engineer in the Refrigerating Industries	T9	173
SMITH, R. H., Comfort Cooling in a Refrigerating Plant	26 3	152	Transient Flow of Heat Through Insulation	23 4	218
SNADER, EARL E., Developments in Automatic Control of Refrigerant Flow	23 1	21	STEVENSON, A. R., JR., F. H. FAUST and E. W. ROESSLER, Application of Refrigeration to Heating and Cooling of Homes	11 4	123
SNOW, HARRY A., Electric Load from Residence Refrigerators	17 3	90	The Flywheel Problem in Compressors Direct Connected to Synchronous Motors	21 4	256
SNYDER, C. C., New Applications of Stainless Metals	23 4	219	Transient Flow of Heat Through Insulation	20 1	23
SOARES, E. C., and R. T. BRIZZOLARA, Modern Ice Plant Economics	21 2	101	STEWART, F. E., and A. D. HOLLAND, Double Pipe Cooler and Condenser Tests	23 2	83
Society, The Prestige of the, ARTHUR J. WOOD	18 1	4	STEWART F. E., Commercial Cooling Units ..	17 1	5
Society and College, WILLIAM E. WICKENDEN	24 1	9	STEWART F. E., Commercial Cooling Units ..	21 1	21
Solid Carbon Dioxide, W. D. MOUNT	23 5	291	STICKNEY, A. B., and D. L. FISKE, What Is a Ton of Refrigeration	26 5	249
Solid Carbon Dioxide from Mexican Wells, JAMES W. MARTIN	21 3	171	STICKNEY, A. B., Refrigeration the Control Factor in Brewing	26 2	70
Solid Carbon Dioxide Refrigeration Control, J. G. BERGDOLL and A. W. RUFF	23 6	347	The Thermodynamics of CO ₂ Cycles	24 6	334
Solid CO ₂ , The Uses of, CHARLES L. JONES	25 6	331	STILES, MEREDITH N., For a Better Calendar ..	20 3	168
SPARKS, JOHN C., Chemistry of Raw Water Can Ice	T9	159	STILLMAN, CHARLES, Cost Study of the "Unit" vs. "Central" System	22 3	155
The Best Methods of Detecting Impurities in Ammonia in Refrigerating Plants	T3	144	STIMSON, H. F., Pressure Relief Diaphragms ..	7 5	380
The Relative Bacteriological Contents of Can, Plate and Natural Ice Under Various Conditions	T4	59	T. S. SLIGH, JR., C. S. CRAGOE, and N. S. OSBORNE, Specific Heat of Superheated Ammonia Vapor	10 5	145
Specific Contained Surface Resistance, Theory of, H. B. LINDSAY	19 6	192	Stokers, Underfeed, JOSEPH G. WORKER	10 8	295
SPELLER, FRANK N., A Study of Corrosion Factors and the Electro-Chemical Theory	12 2	58	STONE, JUNIUS H., Economic Value of Insulation	T6	74
Brine Pipe Corrosion	4 2	220	Insulation	T2	147
			Reinforced Cork Buildings	13 8	249
			Storage Cabinet, Design of a Low Temperature, R. W. AYRES	19 6	191
			Storage Conditions. The Determination of—Meat Refrigeration, Its Literature and Methods of Analysis, P. K. BATES and M. E. HIGHLANDS	27 6	299

S

	Vol.	No.	Page
STRAHAN, E. K., Value of Uniformity in Plant Design	20	4	236
Strike, Refrigeration Has a, WALTER S. SCHINDLER	28	1	7
STRITE, F. S., Structures for Ice Making Plants	17	6	169
Structures for Ice Making Plants, F. S. STRITE	17	6	169
STUBENRAUCH, A. V., Fruit Precooling Problems	T7		162
Stuffing Boxes, A Suggestion to Prevent the Loss of Ammonia at, LOUIS BLOCK	3	1	16
Sugar Industry, Mechanical Refrigeration in the, CHARLES DOMBITSKY	20	6	354
Sugar Refining and Refrigeration, C. W. DOMBITSKY	25	6	321
Sulfur Dioxide, A Characteristic Chart	21	1	33
Sulfur Dioxide, Determination of Moisture in Liquid, A. L. FLENNER and W. R. CAVERLY	21	5	344
Sulfur Dioxide—Oil Systems, Thermodynamics of, L. A. PHILIPP and B. E. TIFFANY	27	5	248
Sulfur Dioxide, CHARLES W. JOHNSTON	15	3	61
Sulfur Dioxide, Thermal Properties of, DAVID L. FISKE	10	6	197
Summer Air Conditioning of Residences, EUGENE D. MILENER	23	3	147
Surface Absorption of Heat from Solar Radiation, F. G. HECHLER and E. R. QUEER	25	2	86
Survey of Patents on Metallic Insulation, PHILIP GOLDBERG	28	4	195
SWART, R. H., and L. A. PHILIPP, New Scheme for Determining Evaporator Capacity of Domestic-Commercial Machines	22	4	234
SWEELEY, E. A., Practice in Refrigerator Car Design	18	3	67
SWIFT, G. E., Unloaders for Motor Driven Compressors	23	4	215
SWITZLER, R. H., Cold Storage Legislation—State and Federal	T7		85
Explosion in Laclede Gas Building, St. Louis, Mo.	12	6	185
SWYLER, NEWTON L., Improving the Ice Cream Hardening Room	22	5	321

SYNCHRONOUS MOTOR(S)

Design, Report of Committee on, H. P. HILL	15	2	48
Driving Refrigerating Machinery, Standardization in the Design and Application of, R. A. McCARTY	9	1	4
For Direct Connection to Compressors, Commercializing the Small, THEODORE SCHOU	12	2	47
For Direct Connection to Compressors, Present Status of the, THEODORE SCHOU	9	2	53
For Refrigeration Service, M. N. HALBERG	25	4	193
Gap-Rim and Side-Wheel, W. H. FELDMAN	15	5	137
The Flywheel Problem in Compressors Direct Connected to, A. R. STEVENSON, JR.	11	4	123
The Flywheel Type, THEODORE SCHOU	11	10	351

T

TABOR, J. M., The Handling and Transport of Fish	12	10	339
TAIT, RODERICK H., Producer, A Gas Operated Refrigerating Plant	T6		39
Some Notes on Pipe Line Refrigeration	10	4	113
TAMM, DR. ING. WALTHER, The Refrigeration of Meat	20	4	220
Tank Design, Some Notes on Ice Freezing, H. I. LEWIS	9	10	301
Tank Design, Ice Freezing, CARL WILKIE	10	11	405
Tanks, Concrete Brine, H. C. BOYDEN	7	5	390
TAVANLAR, E. J., Comparative Tests of Lubricants	19	2	56
TAYLOR, C. S. and E. C. MCKELVEY, Composition and Testing of Commercial Liquid Ammonia	3	5	30
and E. C. MCKELVEY, Composition, Purification and Certain Constants of Ammonia	9	7	213
C. H. MEYERS, and C. S. CRAGOE, Vapor Pressure of Ammonia	6	5	307

T

	Vol.	No.	Page
TAYLOR, HARDEN F., Fishing Industry Grows with Refrigeration	25	6	321
The New Fisheries	15	6	147
TAYLOR, ROBERT S., Heat Operated Refrigerating Machines of the Absorption Type	17	5	136
Telephone Exchange, Air Cooling in a, REALTO E. CHERNE	23	4	211
Temperature Changes in Small Food Containers in Fibreboard Cases, M. A. JOSLYN and G. L. MARSH	24	4	214
Temperature Regulation in Air Cooling and Conditioning, R. C. DAVIS	25	3	149
TERRELL, H. A., Air Conditioning	11	11	388
TERRY, M. C., Engineering Development Procedure	20	1	13
Test of a Two Stage, Double Inlet, Ammonia Compressor, GEORGE A. HORNE and ALFRED W. OAKLEY	19	6	181
Test Plant, Ammonia Compression, Problems Encountered in the Design and Construction of, V. R. H. GREENE	T7		50
Test Rooms, Low Temperatures, HUGH J. KRAMPE	21	5	331
Testing Ammonia Condensers, Suggestions as to Methods for, LOUIS BLOCK	7	1	61
Testing for Domestic Refrigerators, A New Method of Load, H. A. WHITESEL	27	5	240
Testing Iced Refrigerators Under Two Codes, CHARLES H. ROE and GORDON THOMPSON	21	2	106
Testing Refrigerator Cabinets, GALE T. PEARCE	24	3	158
Testing Refrigerating Machines, Standard Method of, D. S. JACOBUS	T4		122
Testing Sheet Steel Insulation, J. T. NICHOLS	28	2	76
Theory and Refrigerating Engineering, D. S. JACOBUS	T3		41
Thermal Engineer, The, W. H. CARRIER, (Presidential Address)	15	1	6
Thermal Testing of Refrigerating Cabinets, H. W. EAGLES	21	6	411
Thermodynamics, C. H. FESSENDEN	16	3	79
Thermodynamics of Ammonia Compression, W. H. MOTZ	9	4	119
Thermodynamics—Ammonia Tables, versus $pv^n=Constant$ for Theoretical Calculations of Ammonia Compression, C. S. CRAGOE	11	2	62
Thermodynamics of Sulfur Dioxide—Oil Systems, L. A. PHILLIP and B. E. TIFFANY	27	5	248
THOMPSON, GORDON and ROE, CHARLES H., Testing Iced Refrigerators Under Two Codes	21	2	106
THOMPSON, GUY V., Practical Methods in Corrosion Prevention	19	3	87
"Time I Speak of"—An Informal Retrospect of Thirty Years, DANIEL L. FISKE	28	6	287
TIMM, R. C., L. I. DANA, A. C. JENKINS, and J. N. BURDICK, Refrigerants—Thermodynamic Properties of Butane, Isobutane and Propane	12	12	387
TIMMERMAN, W. M., The Domestic Refrigerating Unit as Package Merchandise	16	5	136
TIMMERMAN, W. M., and H. A. WHITESEL, Testing Domestic Refrigerators	15	6	151
Ton of Refrigeration, What Is a, A. B. STICKNEY and D. L. FISKE	26	5	249
TORRANCE, HENRY, JR., Description of a Cold Storage Plant Utilizing Exhaust Steam	T2		82
Efficiency of Compressor and Absorption Machines	T1		126
Ammonia Condenser Data	1	4	5
	2	6	33
	5	1	27
Presidential Address	1	2	42
TORRANCE, WILLIAM M., Reinforced Concrete Freezing Tanks	T4		126
Training of Engineers, W. R. WOOLRICH	20	6	364
Training the Young Engineer in Industry, R. I. REES	19	3	95
Trains, Research Studies on Refrigerated, R. W. WATERFILL	17	6	163
Transient Flow of Heat Through Insulation, A. R. STEVENSON	20	1	23
Transient Flow of Heat Through Insulation, H. L. BOJER	20	1	23

T

	Vol.	No.	Page
Transport Developments in Refrigerated, W. F. DIETRICHSON, E. C. WOOD, JOSEPHINE E. BUDD	26	1	9
TRANSPORTATION			
Refrigeration and Heating, System of, LEWIS PENWELL	7	2	140
Present Practice of Refrigeration, E. F. MCPHKE	18	1	1
Economics of the Refrigerator Car, H. R. NEWLEAN	7	5	383
of Fruit in Refrigeration, The, G. HAROLD POWELL	T1		82
of Refrigerated Products, A. R. T. WOODS	2	5	68
Transporting Refrigerants, L. A. BELDING	15	5	130
Trends in the Practice of Refrigerating Engineering, FRED OPHULS	19	1	1
Truck Body Refrigeration, WM. F. BAIRD	20	1	16
TUCKER, W. R., Quick Freezing and Marketing Tuna Fish Industry, Refrigeration in the	20	3	149
Twenty-fifth Anniversary Address, The Quest for Certainty in Refrigeration, ARTHUR J. WOOD	27	1	30
Two Speed Synchronous Motors, R. C. ALLEN and C. C. SHUTT	19	1	111
	24	1	26

U

Uniformity, The Value of in Plant Design, E. K. STRAHAN	20	4	236
Unit Coolers, Heat Transfer in, W. R. WOOLRICH, PAUL W. SCATES and MACK TUCKER	26	5	239
Unit Coolers in Refrigeration and Air Conditioning, THOMAS W. CARRAWAY	24	4	225
Unit Costs, Comparison of for Electric, Gas and Oil Power, D. W. MCKAY	22	3	173
"Unit" vs. "Central" System, Cost Study of the, CHARLES STILLMAN	22	3	155
UNLAND, H. L., Notes on Electric Arc Welding	7	6	426
Unloaders for Motor Driven Compressors, G. E. SWIFT	23	4	215
Use of V-Belt Drives in Refrigerating Plants, O. S. WILLIAMS	20	4	237

V

Vacuum as an Insulator, CHARLES O. DUEVEL, JR.	20	4	223
Vacuum Refrigeration—The Steam Ejector for Industrial Refrigerating Capacities, D. K. DEAN	24	2	73
Value of Uniformity in Plant Design, E. K. STRAHAN	20	4	236
Valve, A New Type of Steam Safety, GEORGE H. CLARK	3	1	19
Valve, Temperature Regulation by Automatic, G. A. WEGNER	8	3	203
Valves, Compressor, Plant Renovation with, J. H. H. VOSS	28	5	248
Valves, Expansion, the Capacity of	28	3	140
Valves for Ammonia Compressors, Automatic, J. H. H. VOSS	17	5	144
VANCE, J. H., Refrigeration in the Manufacture of Rubber	8	5	405
VAN DEVENTER, H. R., Patent Situation in Enclosed Motor Refrigeration	21	1	29
VAN DUSEN, M. S., and H. C. DICKINSON, The Testing of Thermal Insulators	3	2	5
and C. H. MEYERS, The Vapor Pressure of Liquid Carbon Dioxide	13	6	180
and N. S. OSBORNE, Latent Heat of Pressure Variation of Liquid Ammonia	4	2	167
and N. S. OSBORNE, Latent Heat of Vaporization of Ammonia	4	2	172
Thermal Conductivity of Heat Insulators .. and J. L. FINCK, Refrigerator Cabinet—	7	3	202
New Heat Flow Studies	22	5	310
	6		385

V

	Vol.	No.	Page
Variation in Air Conditions—in its Relation to Comfort and Health, CHARLES S. LEOPOLD	26	1	15
V-Belt Drives, The Use of in Refrigerating Plants, O. S. WILLIAMS	20	4	237
Vending System for Ice, W. K. BOOTH	23	5	289
Ventilation of the Minneapolis Auditorium, The Cooling and, S. C. BLOOM	13	10	295
Ventilation, Practice in Refrigeration and, S. C. BLOOM	17	6	186
VETTER, HERMAN, Factors Affecting the Design of Evaporators	24	6	348
VILAS, FRANKLIN E., Service Notes on Gas and Water Controls	19	3	97
VILTER, THEODORE O., The High-Speed Ammonia Compressor	T7		96
Viscosity of Refrigerating Brines, DALE W. KAUFMANN	27	6	306
VOLLMANN, CARL W., Advantages of the Wet Compression System	T3		178
Volumetric Efficiency of a Vertical Single-Acting Ammonia Compressor, JOHN C. REED and AMBROSIUS, EDGAR E.	21	3	176
VOORHEES, GARDNER T., Liqgas—A Possible New State of Matter	T8		48
Multiple Effect Compressors	T2		97
Voss, J. H. H., Automatic Valves for Ammonia Compressors	17	5	144
Determining Refrigerating Efficiency by Temperature and Pressure Readings	9	10	307
Entropy Diagram for Ammonia	4	4	353
Heat Balance of the Ammonia Compression Systems	4	4	345
Heat Waste in the Ammonia Compression Refrigerating Machine	9	8	249
Plant Renovation with Compressor Valves	28	5	248
VROMAN, AMOS J., The New Dairymen's League Plant; Details and Operation....	27	1	11

W

WADSWORTH, J. M., Refrigeration in Oil Refining	21	2	95
WAIT, JOHN C., Contractor's Warranty versus Engineer's Specifications	T2		135
WAITE, NELSON J., Direct Expansion Piping in Egg Rooms	7	1	41
The Comparative Value of Direct and Indirect Refrigeration for Cold Storage Plants	T5		141
WALLACE, L. W., The American Engineering Council	20	1	34
WALLIS, GEORGE E., The Ice Cream Industry..	25	6	313
WALTER, BRUCE, Refrigeration Applied to Air Supply for Blast Furnaces	T4		227
War Requirements, Refrigeration Bulletin for, F. E. MATTHEWS	4	5	525
Warfare, Refrigeration in Connection with Gas, A. M. HERITAGE	5	6	403
WARNER, IRVING, Experiences in the Manufacture of Plate Ice	T3		107
WASHINGTON, LAWRENCE, The Conditioning of Air for Ice-Can Agitation	25	4	199
WATER			
as a Refrigerant, JOHN EVERETTS, JR.	24	6	329
by Ultra-Violet Rays, The Sterilization of, MAX VON RECKLINGHAUSEN	T9		112
Cooling System Efficiency, VICTOR J. AZBE..	11	9	313
Costs, Balancing Compressor Power and Condenser, R. W. WATERFILL	14	3	93
in Refrigeration, WALTER L. FLEISHER	27	1	19
Purification for Ice and Refrigerating Plants, J. C. WILLIAM GRETH	T5		46
Raw, Chemistry of, For Can Ice, JOHN C. SPARKS	T9		159
Softening and Purifying by Electro-Chemical Methods, C. P. LANDRETH	1	1	96
The Raw Material of the Ice Plant, A. S. BEHRMAN	13	3	92

W

	Vol.	No.	Page
<i>WATER—Continued</i>			
to be Frozen, Preparing, M. P. ROBINSON.....	10	2	61
Treatment, Developments in, O. A. DeCELLE and A. S. BEHRMAN	17	2	55
Treatment for Raw Water Ice, JOHN J. FELSECKER	8	2	135
Treatment, Chemistry of, DANA BURKS, JR.	22	4	247
WATERFILL, R. W., and W. H. CARRIER, Com- parison of Thermodynamic Characteristics of Various Refrigerants	10	12	415
Balancing Compressor Power and Con- denser Water Costs	14	3	93
Research Studies on Refrigerated Trains....	17	6	163
WATERFILL, R. W., Steam Ejector System for Cooling Passenger Cars	24	3	137
Waterproofing in Refrigerating Work, ED- WARD W. DeKNIGHT	T4		106
Waters, Oily, and Their Treatment, ALBERT A. CARY	T2		188
WATTLES, J. W., Refrigeration from Electric Viewpoint	18	2	36
WEBLING, J. K. L., Refrigerating Practice with Reference to Lubrication	28	4	185
WEBSTER, HOSEA, An Outline of Boiler Devel- opment	10	10	367
WEGNER, G. A., Temperature Regulation by Automatic Valve	8	3	203
The Float Expansion Valve	21	1	34
Welded Ammonia Containers, Some Tests on, E. A. FESSENDEN	7	4	281
Welded Ammonia Containers, Some Tests on, E. A. FESSENDEN	8	5	426
WELDING			
CHARLES HOLLUP	4	3	235
Applied to Refrigerating Machinery, Arc, A. M. CANDY	7	4	259
Autogenous, FRED W. WOLF, JR.	T5		129
Notes on Electric Arc, H. L. UNLAND.....	7	6	426
of Ammonia Pipe Lines, Coils and Pres- sure Vessels, Oxy-Acetylene, C. WILKIE..	9	11	325
of Refrigerating Apparatus, Oxy-Acetylene, FRED E. ROGERS	7	6	432
Principles and Practices of Fusion, S. W. MILLER	6	2	114
Process, A New Automatic, T. M. RUDE....	25	5	247
Resistance, and Its Application to Refrig- erating Machinery, J. H. GRAVELL	8	1	11
WELLS, GEORGE E., Ice Plant Investments....	5	3	145
Plant Depreciation	6	2	139
Wet Compression System, Advantages of the, CARL W. VOLLMANN	T3		178
What Is a Ton of Refrigeration, A. B. STICKNEY and D. L. FISKE	26	5	249
What Shall the Refrigerator Buyer Be Told? HARRY D. EDWARDS	19	5	139
What's Next in Safety Codes, JOHN E. STARR	20	5	305
WHEATON, ROBERT F., Mass Production of Meat Needs Thousands of Tons of Cool- ing	25	6	316
WHITESSEL, H. A., A New Method of Load Testing for Domestic Refrigerators.....	27	5	240
WHITESSEL, H. A., and W. M. TIMMERMANN, Testing Domestic Refrigerators	15	6	151
WHITNEY, L. F., The Mercury Ejector Re- frigerator	24	3	143
WHYTE, H. T., Multiple Effect Compression..	9	1	10
WICKENDEN, WILLIAM E., Society and College	24	1	9
WIGNEY, H. M., A Railway Man's View of Re- frigeration	12	11	359
WILKIE, CARL, Ice Freezing Tank Design	10	11	405
Ice Plant Operation	11	6	202
Oxy-Acetylene Welding of Ammonia Pipe Lines, Coils and Pressure Vessels	9	11	325
WILLARD, A. C., and A. P. KRATZ, The Resi- dence Cooling Problem	26	2	73
WILLIAMS, E. T., Shaft Seals for Small Re- frigerating Machines	17	3	73
WILLIAMS, O. S., The Use of V-Belt Drives in Refrigerating Plants	20	4	237

W

	Vol.	No.	Page
WILLSIE, H. E., Safety Devices for Household Refrigerating Machines	8	1	1
WILSON, THOMAS A., Properties of Aqua Am- monia, Part I	10	7	248
Windowless Plant, Difficult Problems in Con- struction	21	4	279
Windows—and Their Relation to Air Condi- tioning Problems, W. W. SHAVER	26	3	133
WINTERROWD, W. H., Some Notes on Railway Refrigerator Cars	9	2	62
WITT, RALPH K., DONALD H. ANDREWS and ELIZABETH CRIGLER, Production of Low Temperatures	19	6	177
WITTENMEIER, FRED, Air Conditioning—Cooling of Theatres and Public Buildings	9	4	115
WOLF, FRED W., JR., Autogenous Welding....	T5		129
WOOD, A. J., and R. B. FEHR, Insulation Tests and Roy B. FEHR, Some Recent Studies in Heat Transmission	4	5	464
and F. C. HOUGHTEN, A New Thermal Test- ing Plate for Conduction and Surface Transmission	8	1	23
and P. X. RICE, Economical Thickness of Insulation in Refrigerator Cars	10	10	357
Determining Heat Transmission of Com- pound Walls, with Tests on Insulated Steel Car Sections	3	4	44
Effect of Pipe Lengths on Orifice Coeffi- cients	15	2	35
Heat Transmission—A New Thermal Testing Plate for Conduction and Surface Trans- mission	9	5	160
The Prestige of the Society.....	18	1	4
The Quest for Certainty in Refrigeration...	19	1	111
WOOD, REGINALD DE VOLSON, Recent Graduates Are Thinking	28	5	253
WOOD, E. C., Mechanical Systems Applied to Freight Cars	26	1	11
WOODS, A. R. T., Transportation of Refrig- erated Products	2	5	68
WOOLRICH, W. R., PAUL W. SCATES and MACK TUCKER, Heat Transfer in Unit Coolers...	26	5	239
WOOLRICH, W. R., Effect of Humidity on Heat Transmission of Pipe	21	6	417
Latent Heats of Foodstuffs	22	1	21
Training of Engineers	20	6	364
WORKER, JOSEPH G., Underfeed Stokers	10	8	295
WRIGHT, L. K., Refrigeration Service; Meth- ods and Tools	26	1	30
WYLLIE, JOHN R., JR., Standard Rating for the Small Commercial Unit	22	1	25

Y

YOUNG, FRED C., Experiences Abroad and at Home	28	3	119
YOUNG, GILBERT A., and E. F. BURTON, Insu- lation	10	9	345
YOUNG, HENRY W., Public Lockers for Frozen Foods	28	2	83
Young Engineer in the Refrigerating Industries, ALEXANDER R. STEVENSON, JR.	21	4	256

Z

ZAROTSCHEUZEFF, M. T., Preservation of Poul- try—Quick Freezing vs. Sharp Freezing..	26	6	311
ZIEBER, W. E., and J. C. CONSLEY, Cold Storage and Warehouse Refrigeration	25	1	29
ZOLLER, HARPER F., Thermal Exchange in the Freezing and Hardening of Ice Cream...	11	2	66
Zoning the United States for Refrigeration, D. P. HEATH	16	6	175
ZUMBRO, F. R., and J. C. GOOSMANN, Recent Improvements in Carbon Dioxide Equip- ment	16	1	1
New Applications of Low Temperature Freezing	21	4	259
Test of a Vertical Shell and Tube Type Am- monia Condenser	13	2	49