

AMERICAN SOCIETY of HEATING and VENTILATING ENGINEERS GUIDE, 1928

	Page		Page
Radiators	57	Steam heating	
effect of enclosing	73-76	pipe sizes for	85
direct-indirect temperature control		Steam heating systems	79
of	250	definition of	79
effect of painting	75	description of	81
effect of position	78	pipe sizes for one-pipe	98, 102
heat emission of	58	pipe sizes for two-pipe	99, 103
hot water temperature control of	250	pipe sizes for vapor	100, 104, 105
specifications for	78	pipe sizes for vacuum pump	106, 107
Rating of air washers and filters	316	for humidification	313
Rating gas heaters	236	required for drying	340
Recirculation, arrangements for	269	requirements for air washers	313
percentage of air used in	269	Stoker	356
Refrigeration, ammonia vapor re-		fans	356
quired one ton	326	mechanical	355
Register, warm air	203	Surface losses, effects of air velocity on	261
Registers, recirculating	205	Surface of pipe, radiating	259
Relative humidity	265	System	312
Ratings gas appliances	230	air heating	192, 197, 291
Research, residence warm air	208	air supply	292
Resistance, factors in exhaust and		automatic regulation of tempera-	
collecting system	347	ture and humidity	312
Resistance frictional of straight con-		blow through	291
veyor pipe	348	capacity of pipe for two-pipe steam	96
Risers, capacities of up-feed	96	central fan	193
Risers, effect of reaming entrance to	109	design of furnace	198
Riser connection, expansion	111	draw through	292
Risers, water supply	147	efficiency of exhaust and collecting	347
Roof insulation	39-43	exhaust and collecting	341
Room temperatures	4	fan blast	192, 291
Room temperatures, control of	249	fan for heating and ventilating	291
Room temperatures, radiation for	72	gravity hot water	131
Rotary dryer	338	green house heating	137
		hot water open and closed	124-125
		indirect air required for	293
		losses in ducts	296
		of ventilation	291
		pipe sizes for vacuum	106-107
		piping for hot water heating	117
		plan for heating and ventilating	291
		steam heating	79
		steam one-pipe and two-pipes	80, 81, 82
		typical connection for hot water	128
		unit	193, 298
		unit ventilating temperature con-	
		trol of	248
		vacuum and vapor	83, 100, 106
		warm air furnace heating	198
		water supply and piping	147
		Synthetic air chart	271
		how to use	271
		typical example for use	276
		T	
		Tank	222
		installation of oil storage	222
		oil storage	222
		Temperature	243
		and wind velocity	5
		automatic regulation of	243
		breathing line	4
		drying	339

ALPHABETICAL INDEX TO TECHNICAL DATA SECTION

effect of high and humidity	268	Ventilation	265
heat and humidity control	312	air circulation in	269
how humidity and air motion		air supply for	265
affect human comfort	279	bacteria	275
inside	4	cooling in summer	319
outside	5	definition of	265
water	120	effect of	268
Temperatures	72	effect of dust on	274
attic	19	effectiveness of	266
radiation for room	72	factors in	265
Temperature regulation, automatic		measurements of	271
applications of	245	natural	289
Testing	165	operation of system important	270
code for low pressure steam heating	165	percentage of perfection	273
standard form for reporting boiler		presence of odors	275
tests	168	present status of	265
Theatre, cooling of temperatures	4	requirements, typical case of	267
Thermostats	243	systems of	291
double control	253	unit system for heating and	298
location of	246	Ventilators	359
Transmission co-efficients, definition of	5	Ventilator	366
computation of heat	8	application of	366
heat	7	capacities of	362-364
temperatures	4	classification of	359
Transmission	74	design of	360
heat, effect of humidity on	74	location of	294
Transmission losses, heat calculation		regulation of air flow	295
for	20	resistance to air flow	361
Tunnel dryer	338		
Two-pipe steam system	81, 82, 99, 103	W	
Types of gas heaters	230	Wall coils	70
		Wall construction, heat transmission	21-35
U		from	21-35
Unit heaters, location of	298	Wall insulation	21-35
types of	298	Wall stack	200
		capacity of	201
V		Warm air heating, automatic tem-	
Vacuum pump, motor driven	187	perature control of	251
Vacuum pump system	83, 86, 88, 106, 107	Warm air registers	202
Valves, results of tests on	110	Water flow	147
Vapor system	83, 84, 100, 104, 105	Water, gallons required for cooling	320
Velocity	261	Water supply, formula	152
air, effects of on surface losses	261	Water supply, hot	153
air for mechanical draft	355	Wind	
Ventilating	291	effect of	44
fan system for heating and	291	infiltration from	45
ducts for heating and	296	movement	44
temperature control automatic for			
unit system	248		