

INDEX

HEATING VENTILATING AIR CONDITIONING

GUIDE 1955

33RD EDITION

Technical Data Section

Chapters 1-53 and Pages 1-1160

Cross Reference to Subjects in Chapters 1-53 Alphabetically Listed

A

Abatement
air pollution, 151, 154
smoke, 8, 155, 326

Abbreviations, 11

Absolute
humidity, 5
pressure, 7
temperature, 9, 30
zero, 1, 30

Absorbents, 885, 890
equipment, 891
process, 890
temperature, pressure, concentration, 891

Absorbers, 793
duct, sound, 940
outlet, 945
plate cells, 943
plenum, 945

Absorption systems, 863

Acceleration, 1

Acclimatization, 118

Acoustics, 931

Activated alumina, 886

Activated carbon, 145, 1082

Activated bauxite, 887

Adiabatic, 1
mixing
two air streams, 57
saturation, 60

Adsorbents, 793, 885
equipment, 889
process, 887
temperature, pressure, concentration, 885

Adsorption, odor, vapor, 156, 785

Aerosol, 1, 134, 151

Air
change measurement, 1145
change method, 226, 262
chemical vitiation of, 111, 152, 156
circulation, 112, 455, 467, 677, 721, 1080
circulation in dry, 1070
classification of impurities, 151, 776
dust, 151, 776
lint, 151, 752
cleaner, 151, 775, 1080
viscous impingement type, 777
cleaning, 775
cleaning devices, 775, 793, 794
charged media, 780

Air (continued)

classification of, 775
electrostatic, 792
installation, 784
maintenance, 783
performance, 781
safety requirements, 785
selection, 783, 787
testing, 781
vapor adsorption, 786
combustion, 351, 352
conditioning process, 677, 1005
contaminants, 111, 151, 164, 776, 1031, 1150
cooled condensers, 872
coolers, 609, 613
cooling, tropics, 136
current measurement, 1144
dehumidification, 885
distribution, 455, 467, 691, 693, 1080, 1086, 1089, 1124
air entrainment, 703
application of methods, 717, 1080
balancing the system, 712
ceiling outlets, 709
definitions, 691
design methods, 739
directional control, 714
duct approaches to outlets, 457, 713
entrainment ratios, 703
flow patterns, 713
friction chart, 722, 723
furnace systems, 455, 467
jet pattern, 705
long slot, discharge from, 701
noise level, 683
outlet location, 468, 469, 710, 716
outlet performance, 705, 711
outlets, 694, 708
perforated panels, 701
principles, 693
radial jets, 700
railway car, 1080
recommended velocity, 468, 738
return and exhaust intakes, 716, 948
return grille, 457, 948
room air motion, 693, 707
selection, 710
smudging, 708
spread, 692, 694
standards for, 692
throw, 699, 705, 706
vanes, 705, 706
velocity, 589, 695, 738
velocity across jets, 696, 697, 699
velocity profiles, 699

Air (continued)

vertical drop and rise, 706
volume control, 713, 715
wall outlets, 468, 708
duct construction, 746, 1043
duct design, 470, 721, 737, 748, 1038
duct friction loss, 721
dust concentrations, 155, 160, 161
excess, 334, 348, 352, 381
filter, 777, 784
flow measurement, 78, 1139
flow resistance of coils, 835
impurities, 113, 151, 776
infiltration, 221
causes of, 221
due to wind pressure, 222
through walls, 222
leakage, 223, 225
moist, 25
motion, 122
movement, influence of, 117
movement, measurement of, 1139, 1143
outdoor, 113, 677
physical impurities in, 113, 151, 155, 776
pollution, 151, 154
abatement, 155, 330, 1031
primary, 332, 348
quantity required, 113, 351, 352, 1081, 1083
refrigeration cycle, 860
room motion, 693, 707
saturated, 1
secondary, 332, 348, 381
space conductance, 170, 178
standard, 1
sterilization of, 132, 142
supply and return openings, 456, 469, 708, 716
supply opening noise, 707, 945
temperature requirements, 122, 126, 245, 270, 1006-1016, 1089
theoretical requirements, 113, 350, 352, 1090
thermodynamics of, 23
unit cleaning devices, 775, 797
washers, 1, 797

Air change method
computing infiltration, 224, 259

Air conditioning, 1
aircraft, 1085
automobiles in summer, 1085
central system, 677, 1121
comfort, 2
hospitals, 131-148
humidity, table, 1006