

TABLE OF CONTENTS

CHAPTER 1 ADMINISTRATION	1	
Section		
101 General	1	509 Fire Suppression Systems 44
102 Applicability	1	510 Hazardous Exhaust Systems 44
103 Department of Mechanical Inspection	2	511 Dust, Stock and Refuse Conveying Systems 45
104 Duties and Powers of the Code Official	2	512 Subslab Soil Exhaust Systems 46
105 Approval	2	513 Smoke Control Systems 47
106 Permits	3	514 Energy Recovery Ventilation Systems 51
107 Inspections and Testing	4	
108 Violations	5	
109 Means of Appeal	6	
CHAPTER 2 DEFINITIONS	9	
Section		
201 General	9	601 General 53
202 General Definitions	9	602 Plenums 53
CHAPTER 3 GENERAL REGULATIONS	19	603 Duct Construction and Installation 54
Section		604 Insulation 55
301 General	19	605 Air Filters 56
302 Protection of Structure	20	606 Smoke Detection Systems Control 56
303 Equipment and Appliance Location	20	607 Ducts and Air Transfer Openings 57
304 Installation	21	
305 Piping Support	22	
306 Access and Service Space	22	
307 Condensate Disposal	24	
308 Clearance Reduction	25	
309 Temperature Control	25	
310 Explosive Control	25	
311 Smoke and Heat Vents	25	
312 Heating and Cooling Load Calculations	25	
CHAPTER 4 VENTILATION	27	
Section		
401 General	27	701 General 61
402 Natural Ventilation	27	702 Inside Air 61
403 Mechanical Ventilation	28	703 Outdoor Air 61
404 Enclosed Parking Garages	30	704 Combined Use of Inside and Outdoor Air (Condition 1) 62
405 Systems Control	30	705 Combined Use of Inside and Outdoor Air (Condition 2) 62
406 Ventilation of Uninhabited Spaces	30	706 Forced Combustion Air Supply 62
CHAPTER 5 EXHAUST SYSTEMS	31	707 Direct Connection 62
Section		708 Combustion Air Ducts 63
501 General	31	709 Opening Obstructions 63
502 Required Systems	31	710 Opening Location and Protection 63
503 Motors and Fans	37	
504 Clothes Dryer Exhaust	37	
505 Domestic Kitchen Exhaust Equipment	38	
506 Commercial Kitchen Hood Ventilation System Ducts And Exhaust Equipment	38	
507 Commercial Kitchen Hoods	41	
508 Commercial Kitchen Makeup Air	43	
CHAPTER 6 DUCT SYSTEMS	53	
Section		
601 General	53	
602 Plenums	53	
603 Duct Construction and Installation	54	
604 Insulation	55	
605 Air Filters	56	
606 Smoke Detection Systems Control	56	
607 Ducts and Air Transfer Openings	57	
CHAPTER 7 COMBUSTION AIR	61	
Section		
701 General	61	
702 Inside Air	61	
703 Outdoor Air	61	
704 Combined Use of Inside and Outdoor Air (Condition 1)	62	
705 Combined Use of Inside and Outdoor Air (Condition 2)	62	
706 Forced Combustion Air Supply	62	
707 Direct Connection	62	
708 Combustion Air Ducts	63	
709 Opening Obstructions	63	
710 Opening Location and Protection	63	
CHAPTER 8 CHIMNEYS AND VENTS	65	
Section		
801 General	65	
802 Vents	66	
803 Connectors	67	
804 Direct-Vent, Integral Vent, Mechanical Draft Systems Venting	68	
805 Factory-Built Chimneys	69	
806 Metal Chimneys	70	
CHAPTER 9 SPECIFIC APPLIANCES, FIREPLACES AND SOLID FUEL BURNING EQUIPMENT	71	
Section		
901 General	71	
902 Masonry Fireplaces	71	
903 Factory-Built Fireplaces	71	
904 Pellet Fuel-Burning Appliances	71	
905 Fireplace Stoves and Room Heaters	71	
906 Factory-Built Barbecue Appliances	71	

907	Incinerators and Crematories	71
908	Cooling Towers, Evaporative Condensers and Fluid Coolers	71
909	Vented Wall Furnaces	72
910	Floor Furnaces	72
911	Duct Furnaces	72
912	Infrared Radiant Heaters	72
913	Clothes Dryers	72
914	Sauna Heaters	73
915	Engine and Gas Turbine-Powered Equipment and Appliances	73
916	Pool and Spa Heaters	73
917	Cooking Appliances	73
918	Forced-Air Warm-Air Furnaces	73
919	Conversion Burners	74
920	Unit Heaters	74
921	Vented Room Heaters	74
922	Kerosene and Oil-Fired Stoves	74
923	Small Ceramic Kilns	74
924	Stationary Fuel Cell Power Plants	75
925	Masonry Heaters	75

CHAPTER 10 BOILERS, WATER HEATERS AND PRESSURE VESSELS 77

Section		
1001	General	77
1002	Water Heaters	77
1003	Pressure Vessels	77
1004	Boilers	77
1005	Boiler Connections	78
1006	Safety and Pressure Relief Valves And Controls	78
1007	Boiler Low-Water Cutoff	78
1008	Steam Blowoff Valve	78
1009	Hot Water Boiler Expansion Tank	79
1010	Gauges	79
1011	Tests	79

CHAPTER 11 REFRIGERATION 81

Section		
1101	General	81
1102	System Requirements	81
1103	Refrigeration System Classification	82
1104	System Application Requirements	82
1105	Machinery Room, General Requirements	87
1106	Machinery Room, Special Requirements	88
1107	Refrigerant Piping	88
1108	Field Test	89
1109	Periodic Testing	89

CHAPTER 12 HYDRONIC PIPING 91

Section		
1201	General	91
1202	Material	91
1203	Joints and Connections	92

1204	Pipe Insulation	93
1205	Valves	93
1206	Piping Installation	93
1207	Transfer Fluid	94
1208	Tests	94
1209	Embedded Piping	94

CHAPTER 13 FUEL OIL PIPING AND STORAGE 95

Section		
1301	General	95
1302	Material	95
1303	Joints and Connections	95
1304	Piping Support	96
1305	Fuel Oil System Installation	96
1306	Oil Gauging	96
1307	Fuel Oil Valves	97
1308	Testing	97

CHAPTER 14 SOLAR SYSTEMS 99

Section		
1401	General	99
1402	Installation	99
1403	Heat Transfer Fluids	99
1404	Materials	100

CHAPTER 15 REFERENCED STANDARDS 101

APPENDIX A COMBUSTION AIR OPENINGS AND CHIMNEY CONNECTOR PASS-THROUGHS 107

APPENDIX B RECOMMENDED PERMIT FEE SCHEDULE 111

INDEX 113