

TABLE OF CONTENTS

<p>CHAPTER 1 ADMINISTRATION 1</p> <p>Section</p> <p>101 General 1</p> <p>102 Applicability 1</p> <p>103 Department of Mechanical Inspection 2</p> <p>104 Duties and Powers of the Code Official 2</p> <p>105 Approval 2</p> <p>106 Permits 3</p> <p>107 Inspections and Testing 4</p> <p>108 Violations 5</p> <p>109 Means of Appeal 6</p> <p>CHAPTER 2 DEFINITIONS 9</p> <p>Section</p> <p>201 General 9</p> <p>202 General Definitions 9</p> <p>CHAPTER 3 GENERAL REGULATIONS 19</p> <p>Section</p> <p>301 General 19</p> <p>302 Protection of Structure 20</p> <p>303 Equipment and Appliance Location 21</p> <p>304 Installation 21</p> <p>305 Piping Support 22</p> <p>306 Access and Service Space 23</p> <p>307 Condensate Disposal 24</p> <p>308 Clearance Reduction 25</p> <p>309 Temperature Control 26</p> <p>310 Explosive Control 27</p> <p>311 Smoke and Heat Vents 27</p> <p>312 Heating and Cooling Load Calculations 27</p> <p>CHAPTER 4 VENTILATION 29</p> <p>Section</p> <p>401 General 29</p> <p>402 Natural Ventilation 29</p> <p>403 Mechanical Ventilation 30</p> <p>404 Enclosed Parking Garages 31</p> <p>405 Systems Control 31</p> <p>406 Ventilation of Uninhabited Spaces 31</p>	<p>CHAPTER 5 EXHAUST SYSTEMS 33</p> <p>Section</p> <p>501 General 33</p> <p>502 Required Systems 33</p> <p>503 Motors and Fans 39</p> <p>504 Clothes Dryer Exhaust 40</p> <p>505 Domestic Kitchen Exhaust Equipment 40</p> <p>506 Commercial Kitchen Hood Ventilation System Ducts And Exhaust Equipment 41</p> <p>507 Commercial Kitchen Hoods 44</p> <p>508 Commercial Kitchen Makeup Air 47</p> <p>509 Fire Suppression Systems 47</p> <p>510 Hazardous Exhaust Systems 47</p> <p>511 Dust, Stock and Refuse Conveying Systems 49</p> <p>512 Subslab Soil Exhaust Systems 50</p> <p>513 Smoke Control Systems 50</p> <p>514 Energy Recovery Ventilation Systems 54</p> <p>CHAPTER 6 DUCT SYSTEMS 55</p> <p>Section</p> <p>601 General 55</p> <p>602 Plenums 55</p> <p>603 Duct Construction and Installation 56</p> <p>604 Insulation 58</p> <p>605 Air Filters 59</p> <p>606 Smoke Detection Systems Control 59</p> <p>607 Ducts and Transfer Openings 60</p> <p>CHAPTER 7 COMBUSTION AIR 65</p> <p>Section</p> <p>701 General 65</p> <p>702 Indoor Air 65</p> <p>703 Outdoor Air 65</p> <p>704 Combined Use of Indoor and Outdoor Air (Condition 1) 66</p> <p>705 Combined Use of Indoor and Outdoor Air (Condition 2) 66</p> <p>706 Forced Combustion Air Supply 66</p> <p>707 Direct Connection 66</p> <p>708 Combustion Air Ducts 67</p> <p>709 Opening Obstructions 67</p> <p>710 Opening Location and Protection 67</p>
---	--

TABLE OF CONTENTS

CHAPTER 8 CHIMNEYS AND VENTS 69

Section

801 General 69
802 Vents 70
803 Connectors 71
804 Direct-vent, Integral Vent, Mechanical
Draft Systems 72
805 Factory-built Chimneys 73
806 Metal Chimneys 74

**CHAPTER 9 SPECIFIC APPLIANCES,
FIREPLACES AND SOLID FUEL-
BURNING EQUIPMENT 75**

Section

901 General 75
902 Masonry Fireplaces 75
903 Factory-built Fireplaces 75
904 Pellet Fuel-burning Appliances 75
905 Fireplace Stoves and Room Heaters 75
906 Factory-built Barbecue Appliances 75
907 Incinerators and Crematories 75
908 Cooling Towers, Evaporative
Condensers and Fluid Coolers 75
909 Vented Wall Furnaces 76
910 Floor Furnaces 76
911 Duct Furnaces 76
912 Infrared Radiant Heaters 76
913 Clothes Dryers 76
914 Sauna Heaters 77
915 Engine and Gas Turbine-powered
Equipment and Appliances 77
916 Pool and Spa Heaters 77
917 Cooking Appliances 77
918 Forced-air, Warm-air Furnaces 77
919 Conversion Burners 78
920 Unit Heaters 78
921 Vented Room Heaters 78
922 Kerosene and Oil-fired Stoves 79
923 Small Ceramic Kilns 79
924 Stationary Fuel Cell Power Plants 79
925 Masonry Heaters 79
926 Gaseous Hydrogen Systems 79

**CHAPTER 10 BOILERS, WATER HEATERS
AND PRESSURE VESSELS 81**

Section

1001 General 81
1002 Water Heaters 81
1003 Pressure Vessels 81
1004 Boilers 81
1005 Boiler Connections 82
1006 Safety and Pressure Relief Valves
And Controls 82
1007 Boiler Low-water Cutoff 82
1008 Steam Blowoff Valve 83
1009 Hot Water Boiler Expansion Tank 83
1010 Gauges 83
1011 Tests 83

CHAPTER 11 REFRIGERATION 85

Section

1101 General 85
1102 System Requirements 85
1103 Refrigeration System Classification 86
1104 System Application Requirements 86
1105 Machinery Room, General Requirements 91
1106 Machinery Room, Special Requirements 92
1107 Refrigerant Piping 92
1108 Field Test 93
1109 Periodic Testing 94

CHAPTER 12 HYDRONIC PIPING 95

Section

1201 General 95
1202 Material 95
1203 Joints and Connections 96
1204 Pipe Insulation 97
1205 Valves 97
1206 Piping Installation 97
1207 Transfer Fluid 98
1208 Tests 98
1209 Embedded Piping 98

**CHAPTER 13 FUEL OIL PIPING
AND STORAGE 99**

Section

1301 General 99

1302 Material 99

1303 Joints and Connections 99

1304 Piping Support 100

1305 Fuel Oil System Installation 100

1306 Oil Gauging 101

1307 Fuel Oil Valves 101

1308 Testing 101

CHAPTER 14 SOLAR SYSTEMS..... 103

Section

1401 General 103

1402 Installation 103

1403 Heat Transfer Fluids 103

1404 Materials 104

CHAPTER 15 REFERENCED STANDARDS 105

**APPENDIX A COMBUSTION AIR OPENINGS AND
CHIMNEY CONNECTOR
PASS-THROUGHS 111**

**APPENDIX B RECOMMENDED PERMIT
FEE SCHEDULE 115**

INDEX..... 117

