

Desired Status of ASHRAE Handbook Chapters (June 2003)

(Note: Absolute Handbook Referencing [AHR] numbers appear in bold brackets before chapter publication numbers and titles)

Section 1 Fundamentals and General

TC	TC must approve chapter NOW (if not approved last January)	TCs should be completing final revisions for approval in Jan. or June 2004	TC should be revising chapters	TCs should select reviewers for 2007 Handbook and HB Subcommittee Chairs
	2004 Systems & Equipment	2005 Fundamentals	2006 Refrigeration	2007 Applications
1.1		[54] 1a Thermodynamics [60] 6 Psychrometrics		
1.2		[68] 14 Measurement & instruments		
1.3		[56] 2 Fluid flow [57] 3 Heat transfer [58] 4 Two-phase flow [59] 5 Mass transfer [92] 39 Phys props of materials		
1.4		[69] 15 Fundamentals of control		[45] 46 Design & app of controls
1.5				[38] 39 Computer applications
1.6		[90] 37 Abbreviations & symbols [91] 38 Units and conversions		
1.7				
1.8		[197] 26 Insulation for Mech. Systems		
1.9				[194] 55 Electrical considerations
1.10	[148] 7 Cogen, engine & turbine drives			
1.11	[186] 40 Motors, controls, & VSDs			
1.12				

Section 2 Environmental Quality

TC	TC must approve chapter NOW (if not approved last January)	TCs should be completing final revisions for approval in Jan. or June 2004	TC should be revising chapters	TCs should select reviewers for 2007 Handbook and HB Subcommittee Chairs
	2004 Systems & Equipment	2005 Fundamentals	2006 Refrigeration	2007 Applications
2.1		[62] 8 Thermal comfort		
2.2		[64] 10 Environ ctrl for animals & plants [65] 11 Physiological factors of drying & storing farm crops		[21] 22 Envn ctrl for animals & plants [22] 23 Drying and storing farm crops
2.3		[66] 12a Air contaminants [67] 13 Odors		[44] 45 Control of gaseous indoor air contaminants
2.4	[165] 24 Air cleaners for partic contam	[66] 12b Air contaminants		
2.5				
2.6		[61] 7 Sound & vibration		[46] 47 Sound & vibration control
2.7				[53] 54 Seismic & wind restraint design
2.8		[71] 17 Energy resources		

Section 3 Materials and Processes

TC	TC must approve chapter NOW (if not approved last January)	TCs should be completing final revisions for approval in Jan. or June 2004	TC should be revising chapters	TCs should select reviewers for 2007 Handbook and HB Subcommittee Chairs
	2004 Systems & Equipment	2005 Fundamentals	2006 Refrigeration	2007 Applications
3.1		[73] 19 Refrigerants [74] 20 Thermophys props of refrigs [75] 21 Props of secondary coolants		
3.2			[97] 5 Refrigerant system chemistry	
3.3			[98] 6 Moisture & other contam ctrl	
3.4			[99] 7 Lubricants in refrig sys	
3.6				[47] 48 Water treatment
3.8				

Section 4 Load Calculations and Energy Requirements

TC	TC must approve chapter NOW (if not approved last January)	TCs should be completing final revisions for approval in Jan. or June 2004	TC should be revising chapters	TCs should select reviewers for 2007 Handbook and HB Subcommittee Chairs
	2004 Systems & Equipment	2005 Fundamentals	2006 Refrigeration	2007 Applications
4.1		[82] 29 Res load calculations [83] 30 Nonres load calculations		
4.2		[81] 28 Climatic design information		
4.4		[77] 23 Thermal & moisture control in insul assemblies-Fund [78] 24 Thermal & moisture control in insul assemblies—Applications [79] 25 Therm & water vapr trans data		[42] 43 Building envelopes
4.5		[84] 31 Fenestration		
4.7		[85] 32 Energy estimating methods		
4.10		[87] 34 Computational Fluid Dynamics		

Section 5 Ventilation and Air Distribution

TC	TC must approve chapter NOW (if not approved last January)	TCs should be completing final revisions for approval in Jan. or June 2004	TC should be revising chapters	TCs should select reviewers for 2007 Handbook and HB Subcommittee Chairs
	2004 Systems & Equipment	2005 Fundamentals	2006 Refrigeration	2007 Applications
5.1	[159] 18 Fans			
5.2	[157] 16 Duct construction	[88] 35 Duct design		
5.3	[158] 17 Air diffusing equipment	[86] 33 Space air diffusion		
5.4	[166] 25 Indus gas cleaning and air pollution control			
5.5	[190] 44 Air-to-air energy recovery			
5.6				[51] 52 Fire & smoke mgmt
5.7	[160] 19 Evap air cooling equip			[50] 51 Evap air cooling app
5.8	[173] 31b Makeup air units			[28] 29 Vent of industrial envn. [29] 30 Indust local exhaust sys.
5.9				[12] 13 Encl vehicular facilities
5.10				[30] 31 Kitchen ventilation
5.11	[161] 20 Humidifiers			
5.12		[80] 27 Ventilation & infiltration [70] 16 Airflow around buildings		[43] 44 Building air intake and exh des

Section 6 Heating Equipment, Heating and Cooling Systems and Applications

TC	TC must approve chapter NOW (if not approved last January)	TCs should be completing final revisions for approval in Jan. or June 2004	TC should be revising chapters	TCs should select reviewers for 2007 Handbook and HB Subcommittee Chairs
	2004 Systems & Equipment	2005 Fundamentals	2006 Refrigeration	2007 Applications
6.1	[151] 10 Steam systems [153] 12 Hydronic heat & cooling [154] 13 Condenser water sys [155] 14 Med/hi-temp water heat [168] 27 Boilers [172] 31a Unit ventilators/heaters [174] 32 Hydron units & radiators [185] 39 Centrifugal Pumps [187] 41 Pipes, Tubes, & Fittings [188] 42 Valves [189] 43 Heat exchangers	[89] 36 Pipe sizing		[49] 50 Snow melting & freeze protection
6.2	[152] 11 District heating & cooling			
6.3	[150] 9 Air dist for small systems [169] 28 Furnaces			
6.4	[170] 29 Residential heat equip			
6.5	[147] 6 Panel heating and cooling [156] 15 Infrared radiant heating			[52] 53 Radiant heating & cooling
6.6				[48] 49 Service water heating
6.7	[175] 33 Solar energy equipment			[32] 33 Solar energy use
6.8				[31] 32 Geothermal energy
6.9				[33] 34 Thermal storage
6.10	[167] 26 Auto. fuel-burning equip [171] 30 Chimney, etc. systems	[72] 18 Combustion and fuels		

Section 7 Packaged Air-Conditioning and Refrigeration Equipment

TC	TC must approve chapter NOW (if not approved last January)	TCs should be completing final revisions for approval in Jan. or June 2004	TC should be revising chapters	TCs should select reviewers for 2007 Handbook and HB Subcommittee Chairs
	2004 Systems & Equipment	2005 Fundamentals	2006 Refrigeration	2007 Applications
7.1				
7.3				[37] 38 Operation & maint mgmt
7.4				[40] 41 Supervisory control strategies
7.5				
7.6				[34] 35 Energy use/management [39] 40 Building energy monitoring
7.7				[36] 37 Testing, adjusting, & balancing
7.8				[35] 36 Owning & operating costs
7.9				[41] 42 New bldg commissioning

Section 8 Air-Conditioning and Refrigeration System Components

TC	TC must approve chapter NOW (if not approved last January)	TCs should be completing final revisions for approval in Jan. or June 2004	TC should be revising chapters	TCs should select reviewers for 2007 Handbook and HB Subcommittee Chairs
	2004 Systems & Equipment	2005 Fundamentals	2006 Refrigeration	2007 Applications
8.1	[176] 34a Compressors (positive displacement) [183] 38a Liquid chilling systems		[183] 43a Liquid chilling systems [137] 46 Factory dehy, chrg, & testing	
8.2	[177] 34b Compressors (centrifugal) [184] 38b Liquid chilling systems			
8.3		[55] 1b Refrigeration cycles	[133] 41 Absorption equipment	
8.4	[162] 21 Air-cooling & dehumid coils [164] 23 Air-heating coils [179] 35b Condensers II		[134] 42 Forced-circulation air coolers	
8.5	[178] 35a Condensers I [182] 37 Liquid coolers			
8.6	[180] 35c Condensers III [181] 36 Cooling towers			
8.7				
8.8			[136] 45 Refrigerant-control devices	
8.9			[140] 49 Household refrig & freezers	
8.10	[196] 47 Mech dehumidification			
8.11	[191] 45 Unitary A/C & heat pumps [192] 46 Room A/C and PTACs			[1] 1 Residences
8.12	[163] 22 Desic dehumid & drying equip	[76] 22 Sorbents and desiccants		

Section 9 Air-Conditioning Systems and Applications

TC	TC must approve chapter NOW (if not approved last January)	TCs should be completing final revisions for approval in Jan. or June 2004	TC should be revising chapters	TCs should select reviewers for 2007 Handbook and HB Subcommittee Chairs
	2004 Systems & Equipment	2005 Fundamentals	2006 Refrigeration	2007 Applications
9.1	<p>[142] 1 HVAC analysis & selection</p> <p>[143] 2 Building air distribution</p> <p>[144] 3 In-room terminal systems</p> <p>[145] 4 Central cooling and heating</p> <p>[146] 5 Decentralized cooling and heating</p>			
9.2			[129] 37 Environmental test facilities	<p>[11] 12 Industrial air conditioning</p> <p>[14] 15 Engine test facilities</p> <p>[16] 17 Data processing areas</p> <p>[17] 18 Printing plants</p> <p>[18] 19 Textile processing plants</p> <p>[19] 20 Photographic materials</p> <p>[23] 24 A/C of wood & paper facilities</p> <p>[24] 25 Power plants</p> <p>[25] 26 Nuclear facilities</p> <p>[26] 27 Mine A/C and ventilation</p> <p>[27] 28 Industrial drying systems</p>
9.3				<p>[8] 9 Surface transportation</p> <p>[9] 10 Aircraft</p> <p>[10] 11 Ships</p>
9.4	[149] 8 Applied heat pump/heat recov			
9.5				
9.8				<p>[2] 2 Retail facilities</p> <p>[3] 3 Commercial & public buildings</p> <p>[4] 4 Places of assembly</p> <p>[5] 5 Hotels, motels, and dorms</p> <p>[6] 6 Educational facilities</p> <p>[7] 7 Health care facilities</p> <p>[195] 8 Justice facilities</p> <p>[20] 21 Museums, etc.</p>
9.9				
9.10				[13] 14 Laboratories
9.11				[15] 16 Clean spaces
9.12				

Section 10 Refrigeration Systems

TC	TC must approve chapter NOW (if not approved last January)	TCs should be completing final revisions for approval in Jan. or June 2004	TC should be revising chapters	TCs should select reviewers for 2007 Handbook and HB Subcommittee Chairs
	2004 Systems & Equipment	2005 Fundamentals	2006 Refrigeration	2007 Applications
10.1			[93] 1 Liquid overfeed systems [96] 4 Sec coolants in refrig sys [127] 35 Conc dams & subsurface soils [128] 36 Refrig in chem industry [135] 44 Comp bal in refrig sys	
10.2			[125] 33 Ice manufacture [126] 34 Ice rinks	
10.3			[94] 2 Sys prac for halocarbon refrig [95] 3 Sys prac for ammonia [124] 32 Insul sys for refrig piping	
10.4			[130] 38 Cryogenics [131] 39 Ultralow-temp refrig [132] 40 Biomed app of cryo refrig	
10.5			[102] 10 Commodity storage reqs. [105] 13 Refrig facility design	
10.6			[121] 29 Cargo containers, rail cars, trailers, and trucks [122] 30 Marine refrigeration [123] 31 Air transport	
10.7			[138] 47 Retail food refrig & equip [139] 48 Food serv & comm refrig equip	
10.8			[104] 12 Refrigeration load	
10.9			[100] 8 Thermal props of foods [101] 9 Cool/freeze times of food [103] 11 Food microbiology/refrig [106] 14 Precooling fruit/veg/fl [107] 15 Indust food freezing sys [108] 16 Meat products [109] 17 Poultry products [110] 18 Fishery products [111] 19 Dairy products [112] 20 Eggs and egg products [113] 21 Decid tree & vine fruits [114] 22 Citrus, bananas, & subtropical fruits [115] 23 Vegetables [116] 24 Fruit juice conc. & chilled juice [117] 25 Beverages [118] 26 Processed, etc. foods [119] 27 Bakery products [120] 28 Chocolates, candies, nuts, dried fruit & dried veg	

Environmental Health Committee

TC	TC must approve chapter NOW (if not approved last January)	TCs should be completing final revisions for approval in Jan. or June 2004	TC should be revising chapters	TCs should select reviewers for 2007 Handbook and HB Subcommittee Chairs
	2004 Systems & Equipment	2005 Fundamentals	2006 Refrigeration	2007 Applications
		[63] 9 Indoor envir. health		