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Volume ..... 120.6(d), 120.9(c), 160.4(e)	<b>COMPRESSION</b> ..... 110.2(b), 120.4(d), 150.0(m)5, 160.3(b)5E, 160.3(c)2E,
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<b>COMFORT COOLING</b> .....120.2(b), 140.4(e)1, 140.4(h), 160.3(a)2, 170.2(c)4C, F	<b>CONCRETE MASONRY</b> .... 120.7(b), 140.3(a)9, 160.1(a)4, 5
<b>COMFORT HEATING</b> ..... 120.2(b), 160.3(a)2	<b>CONCRETE SLAB</b> ..... 120.4(a), 150.0(e), 150.0(f), 150.1(c)1D, 160.1(f)2, 160.3(c)2B, 170.2(a)5B
<b>COMMERCIAL BOILER</b> ..... 120.9, 160.4(e)	<b>CONDENSATE DRAIN</b> ..... 150.0(n), 160.4(a)
<b>COMMERCIAL KITCHEN</b> ..... Table 120.1-C, 140.9(b), Table 160.2-D, 170.2(c)4N	<b>CONDENSER</b> ..... 110.2(a), 120.6(a)4, 120.6(b)1
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<b>COMMERCIAL SPACE</b> ..... 150.0(o)	Fan ..... 120.6(a)4D, 120.6(b)1A, 140.4(h), 170.2(c)4F
<b>COMMISSIONING</b>	Water reset controls..... 120.5(a)16, 160.3(d)1P
Measures ..... 120.8(a), 120.8(e)	Water system .....140.4(k)6, 170.2(c)4I
Plan ..... 120.8(a), 120.8(f)	
Process activities ..... 120.8(f), 120.8(i)	
Report .....120.8(a), 120.8(h)2, 120.8(i)	
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**CONDENSING COIL** ..... 150.2(b)1F, 180.2(b)2A

**CONDENSING TEMPERATURE** .... Table 110.2-F, 120.6(a)4, Table 120.6-B, 120.6(a)5B, 120.6(a)8G, 120.6(b)1, 120.6(b)2C, 120.6(b)5G, 140.4(h)1, 170.2(c)4F

**CONDENSING UNIT** ... Table 110.2-A, Table 110.2-L, Table 110.2-M, 120.6(a)4B, 120.6(b)2, 141.0(b)2D, E, 150.0(h)3, 150.2(b)1C, 150.2(b)1E, 160.3(b)3, 180.2(b)2

**CONDITIONED**

Air .... 120.4(g), 141.0(b)2D, 150.0(m)1, 11, 160.3(b)5, 160.3(c)2H, 180.2(b)2B

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Greenhouse ..... 120.6(h), 140.3(a)5, 6, 141.1(c)2

Space ..... 100.0(c), 110.2(d), 120.3(b), 120.4(a)4, 120.7(a), 120.8, 140.3(a)7, 140.3(a)9, 140.4(c), 140.4(n), 140.4(o), 140.6(b), 140.9(c)3, 141.0(a)2A, 150.0(a), 150.0(d), 150.0(g), 150.0(m)1, 7, 8, 150.0(q), 150.1(c)1, 5, 8, 9, 150.2(a)1A, 150.2(b)1J, 160.1(a)2C, 160.1(d), 160.1(e), 160.3(b)5A, G, H, 160.3(c)1C, 2B, 170.2(a)1, 4, 170.2(c)3B, 170.2(c)4M, 180.1(a)1,

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**CONDUCTOR**..... 150.0(n), 160.4(a)1

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**CONFERENCE ROOM** ..... 130.1(c)5, 130.5(d), 140.6(a)1, 160.5(b)4C, 160.6(d), 170.2(e)2A

**CONNECTED BOILER**..... 120.6(i)

**CONSTANT LOADS** ..... 140.4(f), 170.2(c)4D

**CONSTANT VOLUME** ..... 120.4(g), 120.5(a)2, 140.9(c)1, 141.0(b)2D, 160.2(c)7C, 160.3(c)2H, 160.3(d)1, 180.2(b)2B

**CONSTRUCTION**..... 110.0, 120.1(g)7, 120.8(c), 120.8(i), 140.3(a)1A, 140.3(a)9, 141.0(b)2B, 150.0(m)1B, 11B, 150.1(c)11, 150.2(b)1l, 160.2(c)8G, 160.3(b)5A, 170.2(a)1A, 170.2(e)2B, 180.2(b)1A

**CONSTRUCTION DOCUMENTS** ..... 110.10(b)4, 110.10(c), 110.10(d), 120.8(a)4, 120.8(d), 120.8(e), 140.6(a)2J, 140.6(a)3A, B, C

**CONTAMINANT LEVEL**..... 120.6(c)

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**CONTINUOUS**

Insulation..... Table 141.0-C, 150.1(c)1, 150.2(a)1A, 150.2(a)1B, 150.2(b)1l, 180.1(a)1A, Table 180.2-A, 180.2(b)1A

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Mechanical exhaust..... 150.0(o), 160.2(b)2A

Operation ..... 120.6(e)1B, 150.0(o), 160.2(b)2A

Roof ..... 170.2(a)1B

Use area..... 130.1(c)1, 160.5(b)4C

**CONTROL** ..... 170.2(c)4O

And accessibility ..... 120.1(c)2, 160.2(c)2

Device .... 110.9(a), 120.1(d)1, 5, 120.2(e)1, 150.2(e)2, 160.1(f)2, 160.2(c)5, 160.3(a)2D, 160.3(a)2D

Gaps..... 120.6(e)

Interactions ..... 130.1(f), 160.5(b)4F

Mode ..... 150.0(m)13, 160.3(b)5L

Panel..... 140.4(c)2B, 140.4(k)6, 170.2(c)4

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Step..... 130.1(b), 130.1(c)7B, 130.1(d)3A, 160.5(b)4

System .. 110.2(e)4, 110.4(b)3, 110.9(b)4, 110.12(b)1, 120.2(i)8, 120.5(a)17, 120.6(b)2A, 120.6(c)7E, 130.4(b), Table 140.4-I, 140.6(c), 141.0(b)2L, 160.3(a)2H, 160.3(d)1Q, 160.5(e)2, 180.2(b)4B

Valve..... 140.4(k)1, 170.2(c)4l

Zone..... 130.1(c)5, 130.1(c)6, 160.5(b)4

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**CONTROLLED**

Environment Horticulture (CEH)..... 120.6(h), 140.4(e)1, 141.1(c)

Receptacle .. 110.12(e), 130.0(b), 130.4(a)8, 130.5(d), 130.5(e), 141.0(b)2P, 160.5(e)1H, 160.6(d), 180.2(b)4

Separately..... 130.1(c)6D, 140.3(d)1D, 150.0(k)2G, 160.5(a)2, 160.5(b)4C

Ventilation crawlspace .... 150.0(d), 150.0(g), 160.1(d)

**CONTROLS** ..... 120.2, 110.3(c)1, 110.3(c)2, 110.2(a), 110.2(b), 110.2(d), 110.3(b), 140.6(a)4, 140.9(c)1, 160.2(c)7, 160.3(a)

**CONVENTION CENTER**... 130.1(a)2, 130.1(c)1C, 140.6(a)1, 140.6(a)3D, Table 140.10-A, Table 140.10-B, Table 170.2-U, Table 170.2-V

**COOKING EQUIPMENT** ..... 110.5(b)



**COOL ROOF RATING COUNCIL (CRRC) TESTING** . 110.8(i)2  
**COOL-DOWN LOADS** ..... 140.4(b)12  
**COOLER**..... 120.6, 140.6(a)3E, 150.0(m)12A, 160.2(b)1  
**COOLING**  
Capacity .....  
... 120.2(i), 120.6(b)2B, 120.6(j)3, 140.4(a), 140.4(e)1,  
140.4(i), 140.9(a)2, 141.0(b)2C, 150.0(m)13,  
150.2(b)1F, 160.3(b)2H, 5L, 170.2(c)4, 180.2(b)2  
Coil .....  
..... 140.4(e)3A, 140.4(p)2, 141.0(b)2E, 150.2(b)1C,  
150.2(b)1D, 150.2(b)1E, Table 170.2-B, 170.2(c)4  
Dry bulb ..... 140.4(b)3, 140.4(b)7, 150.0(h),  
160.3(b)2D, 170.2(c)2C  
Efficiency..... Table 110.2-N, 140.4(e)1, 170.2(c)4C  
Equipment ..... 120.2(c)1, 120.6(j)1, 140.4(a)1,  
140.4(c)1C, 140.4(p)2, 150.1(c)7, 150.2(a),  
150.2(b)1C, 170.2(c), 180.1, 180.2(b)2A  
Loads..... 140.4(a), 140.4(b)1, 140.4(b)5, 140.4(b)6,  
140.9(c)1, 150.0(h), 160.3(b)1, 170.2(c)  
System ..... 110.2(c), 120.2(a), 120.3(a)1, 140.4(b)1,  
140.4(e), 140.4(h), 140.4(m), 140.4(p)4, 140.9(a)1,  
140.9(a)3, 140.9(c), 141.1(b), 150.0(i), 150.0(m),  
150.1(b), 160.2(b)1, 160.3(a)1-2, 160.3(b)5,  
160.3(c)1A, 170.1(d)2G, 170.2(c)2, 4, 180.2(b)2A  
Tower ..... 110.2(e), 120.5(a)16, 120.6(a)4, 8,  
120.6(b)1, 120.6(b)5, Table 130.5-B, 140.4(b)3,  
140.4(h), 160.3(d)1P, 170.2(c)2C, 170.2(c)4F  
Units..... 120.1(e), Table 140.4-E, 160.2(c)6,  
Table 170.2-E, 170.2(c)4N  
**CORNER OPENING** ..... 120.1(c)2A, 160.2(c)2  
**COVER PLATES** ..... 110.9(c)  
**COVERED**  
Occupancies..... 110.10(a)  
Parking ..... 110.10(b)1B, 140.10(a)1, 150.1(c)14,  
170.2(f)A, 170.2(g)1  
Process..... 120.0, 120.1(f)1, 120.6, 120.7, 141.0(a),  
141.0(b), 160.2(c)7A, 170.1(a), 170.1(b) 180.0,  
Processes ..... 100.0(e)2F, 120.0, 120.6, 120.8, 140.9,  
141.1, 160.7  
**COVERS** ..... 110.4(a), 110.4(b)  
**CRAWL SPACE**..... 120.4(a), 150.0(d), 150.0(g), 150.1(c)1,  
160.1(c), 160.1(d), 160.3(c)2B, 2H, 160.4(f)1, 180.2(b)2B  
**CRITICAL POINT** ..... 120.6(a)8, 120.6(b)5  
**CUBIC FEET PER MINUTE (CFM)** ..... 120.1(c)3, 120.6(e)1A,  
141.1, 140.9(c)1, 150.0(o), 150.1(c)12, 160.2(b)2A,  
160.2(c)3B,  
**CURRENT PROTECTION** .... 110.9(d), 130.0(c)6, 160.5(b)1F  
**C-VALUE**..... 120.4(c), 150.0(m)4, 160.3(b)5D, 160.3(c)2D

**CYCLE OFF ANY ZONE** ..... 140.4(p)  
**CYCLES OF CONCENTRATION** ..... 110.2(e)

## D

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120.2(g), 120.2(i), 140.4(c)2, 140.4(e)1A, 1D, 150.0(e),  
150.0(m)7, 8, 13, 150.0(o), 150.1(c)7A, 150.2(b)1F,  
160.1(f), 160.2(b)2A, 160.2(c)5, 160.2(c)7, 160.3(a)2,  
160.3(b)5L, 170.2(c)3B, 170.2(c)4, 180.2(b)2A,  
**DAMPER CONTROL** ..... 120.2(f), 150.0(o)1B, 160.2(b)2A,  
160.3(a)2E  
**DAMPER LEAKAGE** ..... 140.4(e)2, 170.2(c)4C  
**DAMPER RELIABILITY TESTING** ..... 140.4(e)2, 170.2(c)4C  
**DANCE FLOOR** .. Table 120.1-A, 140.6(a)3C, Table 160.2-B  
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140.3(a)9C, 140.4(b)3A, 9, 140.4(e)2D, 141.0(b)3,  
150.0(h)2, 150.1(a), 150.2(b), 160.3(b)2, 160.3(b)5,  
160.6(d), 170.0(a)3, 170.2(c)2C, 2I, 3B, 4C, 180.2(b)2A,  
180.2(c),  
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Levels ..... 140.3(a)5B-D, 140.3(a)6B, D, 150.1(c)3,  
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Savings time..... 110.9(b)1  
**DAYLIGHTING** ..... 110.6(a)4, 110.9(b)2, 120.1(d)5,  
130.1(d), 130.1(f)3, 140.3(c), 140.3(d), 140.6(a)2L,  
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140.6(a)2, 140.6(a)3, Table 140.6-A, 160.5(b)4D, F,  
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**DEAD BAND FLOW RATE** ..... 140.4(d)  
**DECIBEL LEVEL** ..... 110.9(b)6  
**DECORATIVE GAS APPLIANCE**..... 110.2(c), 140.6(b)4,  
150.0(e), 160.1(f)

<b>DEDICATED ELECTRICAL RECEPTACLE ...</b>	150.0(n)1A, 160.4
<b>DEDICATED OUTDOOR AIR SYSTEMS (DOAS).....</b>	140.4(p), 170.2(c)4N
<b>DEDICATED RACEWAY.....</b>	150.0(s)
<b>DEFAULT SHGC .....</b>	10-111(a)1B, 110.6(a)3
<b>DEFAULT FENESTRATION PRODUCT U-FACTORS .....</b>	Table 110.6-A
<b>DEFAULT SOLAR HEAT GAIN COEFFICIENT (SHGC).....</b>	Table 110.6-B
<b>DEFAULT U-FACTOR .....</b>	10-111(a)1B, 10-111(b)1B, 10-112(a), 110.6(a)2
<b>DEFAULT VALUES .....</b>	10-112(a), Table 140.4-D, 150.1(c)3, 170.2(a)3A, Table 170.2-E
<b>DEFAULT VALUES FOR FAN KW DESIGN BASED ON MOTOR NAMEPLATE HP .....</b>	Table 140.4-D
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Control ventilation (DCV).....	120.1(d), 120.5(a)5, 160.2(c)5, 160.3(d)1
Flexibility.....	150.1(b)1
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Responsive EMC Control.....	130.3(a)3, 160.5(d)3
Shed .....	110.12(b), 120.2(b)4, 120.2(h), 120.5(a)10, 160.3(a)2, 160.3(d)1J
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<b>DEPARTMENT OF CONSUMER AFFAIRS.</b>	110.8(a), 110.8(j)
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Airflow .....	Equation 120.1-A, 120.6(a)3B, 120.6(c)2, 140.4(c)1, Table 140.4-J, Table 140.4-K 170.2(c)4
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Capacity .....	120.6(c)1, 140.4(k)4, 170.2(c)4I
Conditions.....	120.6(b)4A, 120.10(a), 140.4(b)2, 140.4(b)3, 140.4(c)1, 140.4(k)8B, 140.4(q), 140.9(a)2, 140.9(c)3B, 150.0(h), 160.3(b)2, 170.2(c)2-4
Data .....	140.4(b)9, 170.2(c)2I
Flow rate.....	140.4(k)1, 170.2(c)4I
Load .....	110.10(b)4, 140.4(a), 140.4(b)1, 11, 12, 140.4(g), 140.9(a), 141.1(b), 170.2(c)2
Phase .....	120.8(b), 120.8(c), 120.8(d)2, 120.8(f)
Phase design review .....	120.8(a)3, 120.8(d)
Review .....	10-103, 120.8, 120.8(a), 120.8(d)
Supply.....	140.4(e)1, 140.4(f)2, 170.2(c)4C, D, O
Temperature.....	140.4(b)2, 140.4(b)3, 140.4(j), 150.0(h), 160.3(b)2, 170.2(c)2, 170.2(c)4H
Ventilation .....	120.1(d), 120.6(c)7, 160.2(b)2A, 160.2(c)5,
Wattage.....	120.6(c), 120.6(d)3, 120.6(j)3, 120.9(b), 140.4(k)6, 160.4(e)2, 170.2(c)4I
Zone.....	140.4(d), 170.2(c)4B
<b>DESIGNATED EFFICIENCY .....</b>	120.1(c)1B, 150.0(m)12C, 160.2(b)1C, 160.2(c)1B
<b>DESIGNATED SOLAR ZONE.....</b>	110.10(b)1A, 110.10(b)1B
<b>DIAGNOSTIC EVALUATION.....</b>	140.3(a)9, 141.0(b)2Q
<b>DIAGNOSTIC TESTING .....</b>	10-103(a)5, 110.1(c), 120.4(g)1, 141.0(b)2D, 141.0(b)2E, 150.0(m)1, 150.0(m)11, 150.0(m)13, 150.0(o), 150.1(c)7, 150.1(c)9, 150.1(c)10, 150.2(b)1D, 150.2(b)1E, 150.2(b)1F, 150.2(b)1M, 160.2(a)1, 160.2(b)2B, 160.3(b)5, 160.3(c)2H, 170.2(c)3B, 180.1(b)3, 180.2(b)2, 180.2(b)5
<b>DIFFERENTIAL PRESSURE .....</b>	140.4(k)6, 170.2(c)4I
<b>DIMMING CONTROLS.....</b>	150.0(k)2, 160.5(a)2
<b>DIRECT DIGITAL CONTROL (DDC).....</b>	110.12(b), 120.1(d), 120.2(b), 120.2(e), 120.2(i), 120.2(j), 120.2(k), 140.4(c)2, 140.4(d), 140.4(k)6, 160.3(a)2, 170.2(c)4A, B, I
<b>DIRECT EXPANSION (DX).....</b>	140.4(a), 140.4(e)2, 140.4(m), 170.2(c)4K
<b>DIRECT EXPANSION (DX) UNIT REQUIREMENTS FOR COOLING STAGES AND COMPRESSOR DISPLACEMENT .....</b>	Table 140.4-H , Table 170.2-H

<b>DIRECT SUNLIGHT</b> .....	130.1(d), 140.3(a)6E, 140.3(d), 140.4(e)2D, 150.1(c)4, 160.5(b)4D, 170.2(a)3B, 170.2(c)4C
<b>DIRECTIONAL INLETS</b> .....	110.4(b)
<b>DIRECTORY</b> ....	110.0(b), 110.1(b), 150.0(o)1G, 160.2(b)2A
<b>DISPLAY CABINET</b> .....	150.0(k)2, 160.5(a)2G
<b>DISTANCE FACTOR</b> .....	140.3(d)2, 140.3(d)3, Table 140.3-C
<b>DISTRIBUTED ENERGY STORAGE DX AC SYSTEM</b> .....	120.5(a)13, 160.3(d)1
<b>DISTRIBUTION SYSTEM</b> .	100.0(b), 110.3(c)2, 4, 120.1(a)2, 120.2(j)2 120.3(a), 120.4, 120.4(a), 120.6(h)3, 130.0(a), 130.5(a), 130.5(b), 140.4(f), 140.4(k)8, 141.0(a), 141.0(b)2P, 150.1(c)8, 9, 150.2(b)1H, 160.2(a)2, 160.3(a)2I, 160.3(b), 160.3(c), 160.6(b), 160.9(c)2A, 170.2(c)3B, 4D, 170.2(d), 180.1(a), 180.2(b)3- 4
<b>DISTRIBUTION TRANSFORMER</b> .....	110.11(a)
<b>DOCK DOORWAY</b> .....	120.6(a)6
<b>DOCUMENTATION</b> .....	10-103(a, b, d), 10-104(b), 10-105(b), 10-106(b), 10-109(c, d, i), 10-115(a)4, 110.2(e), 110.6(b), 110.9(c), 110.9(d), 110.10(d), 120.5(b), 120.8(b), 120.8(d), 130.4(c), 140.3(d), 150.1(b)3, 160.3(d)3, 160.5(e)3, 170.1(d)1, 2H
<b>DOCUMENTATION AND TRAINING</b> .....	120.8(a), 120.8(h)
<b>DOMESTIC WATER HEATING SYSTEM (DHW)</b> .....	150.1(c)8
<b>DOOR</b> .....	120.6(a)6, 130.1(a)2, 8, 150.0(k), 150.1(c)5, 150.2(b)1I, 160.5(a)1A, 2E, 170.2(a)4, 180.2(b)1D
<b>DOOR HEADER</b> .....	150.2(a)1A
<b>DORMITORY</b> .....	130.0(b), 160.5(a)
<b>DOUBLE SIDE OPENING</b> .....	160.2(c)2
<b>DRAFT STOPPED</b> .....	150.0(m)1B, 160.3(b)5A-F
<b>DRAIN WATER HEAT RECOVERY</b> .....	150.1(c)8, 170.2(d)
<b>DRAWBANDS</b> .....	120.4(b)1, 120.4(b)2, 150.0(m)2, 150.0(m)3, 160.3(b)5, 160.3(c)2C
<b>DRESSING ROOM</b> .....	140.6(a)3C
<b>DRIVER</b> .....	130.0(c)2-6, 141.0(b)2I, 141.1(c)3, 160.3(b)1B-F, 180.2(b)4B
<b>DRY BULB</b> .....	Table 110.2-L, M, 120.2(e)2B, 8B, 120.6(a)4, 120.6(a)8, 120.6(b)1, 4, 140.4(b)3A, 140.4(e)1, 140.4(e)2, 140.9(a)1, 141.1(b)1, 150.0(h)2, 160.3(a)2D, 160.3(b)2D, 170.2(c)2C, 4C, Table 170.2-G
<b>DRYER VENT</b> .....	150.0(h), 160.3(b)3
<b>DRY-TYPE DISTRIBUTION TRANSFORMER</b> .....	110.11(a)
<b>DRYWALL CEILING</b> .....	140.3(a)1B, 150.0(a), 160.1(a)2, 170.2(a)1B
<b>DUAL-FUEL HEAT PUMP</b> .....	140.4(a), 170.2(c)3A, Table 170.2-K
<b>DUAL-GLAZED GREENHOUSE</b> .....	150.0(q)1, 150.2(b), 160.1(e), 180.2(c)
<b>DUAL-PANE DIFFUSER</b> .....	150.1(c)3
<b>DUCT</b> .....	Table 110.2-I, 110.8(d), 120.4(b), Table 140.4-B, 150.0(a), 150.0(m)3, 150.0(m)10, 150.0(m)13, Board .....
	120.4(d), 150.0(m)1, 150.0(m)5, 160.3(b)5A-F
	Closure.....
	120.4(a), 150.0(m)1D, 160.3(b)5A-F, 160.3(c)2A
	Insulation.....
	120.4(a, c, d, e), 150.0(m)1, 150.0(m)4, 150.0(m)5, 150.0(m)6, 150.1(c)9, Table 150.2-A, 150.2(b)1D, 160.3(b)5D-F, 160.3(c)2D-F, Table 170.2-K, 180.2(b)2A
	Insulation R-Value .....
	150.0(m)4, Table 150.2-A, 160.3(b)5D, Table 180.2-C
	Leakage.....
	120.4(g)2, 141.0(b)2D, 150.0(m)11, 150.2(b)1D, 150.2(b)1E, 160.3(b)5K, 160.3(c)2H, 180.2(b)2
	Liner.....
	120.4(d), 150.0(m)5, 160.3(e)5
	Sealing .....
	120.4(a), 120.4(g), 141.0(a)2, 141.0(b)2D, 141.0(b)2E, 150.2(b)1D, 150.2(b)1E, 160.2(b)2C, 160.3(b)K, 180.2(b)2
	Split.....
	140.4(c)2A, 170.2(c)4A
	System .....
	120.4(b, c, d, g), 120.5(a)3, 141.0(a), 141.0(b)2D, 141.0(b)2E, 150.0(m)1, 150.0(m)2, 150.0(m)3, 150.0(m)11, 150.0(o)1, 150.1(c)9B, 150.2(a), 150.2(b)1C, 150.2(b)1D, 150.2(b)1E, 150.2(b)1L, 150.2(b)2, 160.2(b)2A, 160.3(b)5, 160.3(c)2, 160.3(d)1, 170.2(c)3B, 180.1, 180.2(b)2, 5
	Wrap.....
	120.4(d), 150.0(m)5, 160.3(b)5E, 160.3(c)2E
<b>DUCTED SPLIT SYSTEM</b> .....	150.1(c)7, 150.2(b), 170.2(c)3B, 180.2(b)2A
<b>DUCTING (OUTDOOR AIR)</b> .....	120.1(e), 160.2(c)6
<b>DUCTS</b> .....	110.8(d)3, 120.4(a), 141.0(b)2C, 141.0(b)2D, 150.0(m), 150.1(c)1, 150.1(c)9, 160.3(c)2, 170.2(c)3B, C, 180.1
<b>DUCTWORK</b> .....	120.1(c), 120.1(f), 120.4(b), 150.0(m)12A, 160.2(b)1, 160.2(c)1, 160.2(c)7, 160.3(c)2
<b>DWELLING</b> .....	150.0(m)11
<b>DWELLING UNIT</b> .....	110.3(c)4, 110.10(b)B, 120.2(a), 130.0(b), 140.4(k)8, 140.4(n), 140.5(c), 140.6(a)3N, O, 150.0(n), 150.0(o), 150.0(s-v), Table 150.0-G, 150.1(a), 150.1(c)3, 150.1(c)8, 150.1(c)12, 150.1(c)14, Table 150.1- C, 150.2(a), 150.2(a)1C, 150.2(a)2C, 150.2(b)1D, 150.2(b)1H, J, L, M, 160.0, 160.1(e)1, 160.2(a), 160.2(b), Table 160.2-G, 160.3(a), 160.3(b), 160.3(d), 160.4(a), 160.4(b), 160.5(a), 160.5(b), 160.5(c), 160.6(b), 160.6(d), 160.9, 170.0, 170.0(a)3, 170.1(d)2, 170.2(a)3, 170.2(c)3, 170.2(d), 170.2(e), 180.1, 180.1(a), 180.2(b), 180.2(b)5

**DX-DOAS UNITS, SINGLE-PACKAGE AND REMOTE CONDENSER – MINIMUM EFFICIENCY REQUIREMENTS** ..... Table 110.2-K  
**DYNAMIC CONTROLS** ..... 120.1(f)2, 160.2(c)7

**E**

**E24/E26 MEDIUM SCREW BASE SOCKET** ..... 140.8(b)6, 170.2(e)7  
**ECONOMIZER** ..... Table 110.2-L, 120.1(d)3, 120.2(i), 120.5(a)4, 120.6(b)2B, Table 140.4-A, 140.4(e), 140.4(m), 140.4(q)2, 140.9(a)1, 141.1(b), 160.2(c)5C, 160.3(a)2H, 160.3(d)1D, Table 170.2-B, 170.2(c)4C, K, N, O  
**ECONOMIZER CONTROLS** ..... 120.5(a)4, 140.4(e)2, 160.3(d)1D  
**ECONOMIZER SYSTEM** ..... 120.6(j), 140.4(d), 140.9(a)1, 170.2(c)4B  
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**EER/EER2/SEER/SEER2/CEER/HSPF/HSPF2 RATING** ..... 150.1(b)3B, 170.1(d)2A  
**EFFICACY** ..... 130.1(c)7B, 130.1(c)8, 150.0(k)1, 150.0(m)12, 13, 150.0(o)2C, Table 150.0-A, 150.1(b)3B, 150.1(c)10, 150.2(b)1K, 160.2(b)1D, 160.2(b)2, 160.3(b)5L, 160.5(a)1A, Table 160.5-A, 160.5(b)4C, 170.1(d)2F, 170.2(c)3B, Table 170.2-K, 180.2(b)4A  
**EFFICIENCY**... 10-103(a), 10-103(c), Table 110.2-A-E, Table 110.2-I, Table 110.2-N, 120.1(c), 120.6(a)4G, 120.6(b)5, 140.4(c), 140.4(h), 140.4(i), 140.8(b), 140.9(a)4, Table 140.9-B, 141.0(b)3, 150.0(m)12, Table 150.2-D, 160.2(b), 160.2(c)1, 170.2(c)3B, 170.2(c)4, Table 170.2-F, 170.2(e)7 Levels .110.1(b), 110.1(c), Table 141.0-E, Table 150.2-D Requirements ..... 110.2(a), Table 110.2-D 120.6(b)1G, Table 120.6-D Standard ..... 110.2(a), Table 110.2-J  
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**EGRESS** ..... 120.1(d), 130.1(a), 130.1(c)1, 6, 7, Table 130.5-B, 140.6(a)3K, 140.6(c)3H, 150.0(s)2, 150.1(c)4E, 160.2(c), 160.5(b)4, 170.2(e)2C, 4B,  
**ELECTRIC**  
Clothes Dryer ..... 150.0(v), 160.9(c)  
Cooktop ..... 150.0(u), 160.9(b)  
Demand ..... 110.4(b)  
Furnace ..... 110.2(d)  
Power distribution ..... 160.6  
Ready building ..... 160.9

Reheat ..... 141.0(a)2, 141.0(b)2C, 141.0(b)3, 180.2, 180.2(b)2B  
Resistance heating ..... 110.4(a), 120.2(d), 120.6(a)2, 120.6(a)7, 140.4(g), 141.0(b)2C, 160.3(a)2, 170.2(c)4E  
Resistance space heat ..... 141.0(b)2C, 150.2(b)1G, 180.2(b)2A, 180.2(b)2B  
Resistance water heater ..... 150.2(b)1H, 180.2(b)3C  
Vehicle (EV) Charger ..... 110.10(b)1A, 110.10(b)1B

**ELECTRICAL**

Boxes ..... 150.0(k)1, 160.5(a)1E  
Circuits ..... 130.5(b), 130.5(d), 141.0(b)2P, Q, R, 160.6(b), 180.2(b)4B  
Energy monitoring ..... 130.5(b), 141.0(b)2P, Q, R, 160.6(b), 180.2(b)4B  
Feeder ..... 130.5(a), 141.0(b)2P, 160.6(a), 180.2(b)4B  
Input power ..... 120.6(a)4G, 120.6(a)8H, 120.6(b)5H, 120.10(a), 140.4(c)1, 170.2(c)4A  
Load ..... 130.2(c), Table 130.5-A, Table 130.5-B, 160.5(c)2, Table 160.6-A, Table 160.6-B  
Output ..... 150.1(c)14, 170.2(f)  
Panel ..... 110.9(c), 150.0(n), 160.4(a), 160.9(c)  
Power distribution system ..... 100.0(b), 110.11, 120.6(h), 130.0, 130.5, 130.0(a), 141.0(a)1, 141.0(a)2 141.0(b)2C, 141.0(b)2P, Q, R, 160.6(b), 180.1(a), 180.2(b)4  
Receptacle ..... 150.0(n), 160.4(a)  
Service ..... 110.10(c), 110.10(e), 130.5(a), 140.4(i), 141.0(b)2P, 150.0(n, t, u, v), 160.6(a), 160.9(a-c), 170.2(c)4G, 180.2(b)4B  
Supply voltage ..... 110.5(b)

**ELECTRICALLY OPERATED VARIABLE REFRIGERANT FLOW (VRF) AIR CONDITIONERS MINIMUM EFFICIENCY REQUIREMENTS** ..... Table 110.2-G

**ELECTRICALLY OPERATED VARIABLE REFRIGERANT FLOW AIR-TO-AIR AND APPLIED HEAT PUMPS – MINIMUM EFFICIENCY REQUIREMENTS** ..... Table 110.2-H

**ELECTRONIC MESSAGE CENTER (EMC) CONTROL** ..... 110.12(d), 130.3(a)3, 160.5(d)3

**ELECTRONICALLY COMMUTATED MOTOR** ..... 110.10(b)1, 120.6(a)3, 140.4(c)3, 170.1(c)4A

**ELEVATOR** ..... Table 120.1-C, 120.6(f), 140.6(a)3U, 140.7(a)8, 150.0(m)8, Table 160.2-D, 160.3(b)5H, Table 160.6-B, 160.7(a), 170.2(e)2C, 6A

**EMBEDDED FAN** ..... 120.10(a)

**EMERGENCY BACKUP** ..... 140.4(g), 170.2(c)4E

<b>EMITTANCE</b> .....	10-113, 110.8(i), 110.8(j), 140.3(a)1A, 141.0(b)2B, 150.1(c)11, 150.2(b)1I, 170.2(a)1A, 180.2(b)1A	Use.....	120.3(c), 130.5(a), 140.4(a)1, 140.4(e), 140.4(f), 141.0(a)2, 150.2(a)2B, 160.3(c)1, 160.6(a), 170.2(c)1, 170.2(c)4, 180.1(b)2
<b>ENCLOSED KITCHEN</b> .....	150.0(o), Table 150.0-E, 160.2(b)2A	<b>ENFORCEMENT AGENCY</b> .....	10-103(d), 10-105, 110.6(a)5, 110.6(a)5, 110.6(a)6, 110.9(c), 110.9(d), 110.10(a), 120.5(a), 120.6(a)7, 120.6(b)6, 120.6(c)8, 120.6(e)6, 120.6(f)5, 120.6(g)2, 120.6(i)4, 130.1(a), 130.1(c)1, 130.4(a), 140.0(c), 140.3(a)8, 140.3(d)2, 140.9(b)3, 140.9(c)3-4, 160.2(a), 160.3(d)1, 160.3(d)2, 160.5(b)4, 160.5(e)1
<b>ENCLOSED PARKING GARAGE</b> .....	120.6(c), 160.2(d)	<b>ENTIRE BUILDING</b> .....	110.10(b)1B, 120.1(d)2, Equation 140.3-B, 140.3(a)9C, 140.4(g), 140.6(b)3A, 140.6(c)1, 141.0(b)2A, 141.0(d), 150.2(b), 160.2(c)5B, Equation 170.2-B, 170.2(c)4E, 180.2(b)1C, 180.4
<b>ENCLOSED SPACE</b> .....	140.3(c), 141.0(b)2I, 141.1(c)3, 170.2(b), 180.2(b)4B	<b>ENVELOPE</b> .....	110.7, 120.0, 120.2(a)1, 120.6(h)4, 120.8(b)5, 120.8(c)5, 140.3(a), 140.3(d)2H, 140.4(b)5, 141.0(a)1, 141.0(a)2, 141.0(b)2, 141.0(b)3, 141.1(c)2, 150.0(m)1B, 150.0(o)1C, 160.1, 160.2(b)2, 160.3(a)2A, 160.3(b)5A, 170.2(a), 170.2(c)2E, 180.1(a)1, 180.2(b)1
<b>ENCLOSURE LEAKAGE</b> .....	150.0(o)1C, 150.1(b)3B, 160.3(d)2, 170.1(d)2H	<b>ENVELOPE COMPONENT PACKAGE – MULTIFAMILY STANDARD BUILDING DESIGN</b> .....	Table 170.2-A
<b>ENERGY</b>		<b>ENVELOPE COMPONENT REQUIREMENTS</b> .....	140.3(a), 170.2(a)
Budget .....	10-104(b), 140.0(c), 140.1(a), 140.1(b), 140.1(c), 141.0(b)3, 150.1(b)1, 150.1(b)2, 150.1(b)3, 150.2(a)2A, 150.2(b)2, 170.1(a), 170.1(b), 170.1(c), 170.1(d), 180.1(b)1, 180.2(c)	<b>ENVELOPE LEAKAGE</b> .....	150.0(o), 160.2(b)2A
Commission .....	110.0(b), 110.1(b), 110.1(c), 110.2(e), 110.2(f), 110.6(a), 120.2(i), 120.6(e)1, 140.0(c), 140.1(b), 140.1(c), 140.3(a)6E, 140.3(a)9, 140.3(c), 140.4(b)1, 140.4(e)2, 150.0(o)1G, 150.1(a), 150.1(b), 150.1(b)1, 150.1(c)10, 160.2(b)2A, 160.3(a)2H, 170.1(b), 170.2(a)3B, 170.2(c)3B, 170.2(c)4D	<b>EQUATION</b>	
Commission directory.....	150.0(h), 150.0(p)	140.3-A .....	140.3(a)5
Consumption .....	141.0(c), 150.1(b), 180.3	140.3-B .....	140.3(a)5
Design rating (EDR).....	150.1(b)1, 150.1(b)3	140.3-D .....	140.3(d)2, 140.3(d)3, 170.2(a)3A
Efficiency goals .....	120.8(b)	140.4-A .....	140.4(c)1
Efficiency ratio (EER) rating .....	150.1(b)3	150.1-C .....	150.1(c)14
Efficient combination .....	120.6(e)	<b>EQUIPMENT</b> .....	170.2(c)3
Features .....	141.0(a)2, 150.2(a)2B, 180.1(b)2	Expectations .....	120.8(b)
Management Control System (EMCS) .....	110.2(c), 110.2(e), 110.12(b), 120.2(a), 120.2(i)6, 120.5(a)17, 130.0(e), 130.4(b)2, 140.9(c)3, 150.0(i), 150.0(k)2, 150.0(k)3, 160.3(a)1, 160.3(a)2A, 160.3(d)1, 160.5(a)2, 160.5(b)3, 160.5(e)2B	Loads.....	140.4(b)9, 170.2(c)2I
Performance .....	140.9(a)	Maintenance .....	110.8(g)2, 120.3(b), 120.4(f), 150.0(m)9, 160.3(b)5I, 160.3(c)1A, 160.3(c)2G, 160.4(f)1
Recovery .....	120.1(c)1A, 120.1(g), 140.4(e)1, 140.4(q), 140.9(b)2B, 150.0(m)12, 150.0(o)2C, 160.2(b)1, 160.2(b)2, 160.2(c)1A, 160.2(c)8, 160.3(d)2, 170.2(c)3B, 170.2(c)4	Selection .....	140.4(a), 170.2(c)1
Recovery bypass .....	140.4(q), 170.2(c)4N, 170.2(c)4O	Sizing.....	140.4(b), 150.0(h), 160.3(b)1, 170.2(c)2
Recovery Requirements BY Climate Zone and percent outdoor air at full design airflow (<8,000 hours / year) .....	Table 140.4-J, Table 170.2-I	<b>ESCALATOR</b> .....	120.6(g), Table 130.5-B, Table 160.6-B
Recovery Requirements BY Climate Zone and percent outdoor air at full design airflow (8,000 hours / year) .....	Table 140.4-K, Table 170.2-J	<b>EVAPORATIVE</b>	
Star program.....	110.10(b)1A, 110.10(b)1B, 140.9(a)4	Condenser .....	Table 110.2-F, 120.6(a)4G, 120.6(a)7C, 140.4(h), 170.2(c)4F
Storage System (ESS) .....	140.4(i), 140.4(j), 150.0(s), 170.2(c)4	Cooler .....	150.0(m)12, 160.2(b)1
		System .....	120.6(a)4, 140.4(m), 170.2(c)4K
		-cooled condenser .....	120.6(a)4, 120.6(b)1
		<b>EVAPORATOR</b> .....	110.2(a), 120.6(a)3, 120.6(a)7
		<b>EVAPORATOR COIL</b> .....	150.0(m)13, 150.2(b)1F,

160.3(b)L, 180.2(b)2A

**EVAPORATOR FAN** ..... 120.6(a)3, 120.6(a)7

**EXCHANGE AIR** ..... 150.0(m)7, 160.3(b)G

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10-103.1(e), 10-103.1(f)2, 10-104(b), 10-105(a-c),  
10-106(b), 10-107(b), 10-108(b), 10-109(b)1,  
10-110(a-g), 10-115(c), 120.4(b)1A, 120.6(a)4F,  
120.6(b)1D, 120.6(e)1, Table 140.4-G,  
140.10(a)2C, 141.0(b)3C, 150.0(m)2A, 150.0(n)3,  
150.1(c)14B, 150.2(a)1D, 150.2(b)1H,  
160.3(b)5B, 160.3(c)2C, 160.4(c), 170.2(a)6,  
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180.1(a)3B, 180.3(b)3C

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160.1(a)3

**EXHAUST** ..... 120.1(c)4, 120.1(d)3, 120.1(e), 120.2(f),  
Table 120.1-A, 140.4(c)1, 180.3(b)5B

Air heat recovery ..... 120.1(g)2E-3, 140.a(e)1,  
140.4(q), 170.2(c)4O, 160.2(b)2B, 160.2(c)8B,  
160.2(c)8C(ii)(i)

Airflow .....(vi)e160.2(c)4

Fan.....120.2(f), 140.4(c)1, 140.4(p)3,  
150.0(k)1, 160.2(b)2B, 160.5(a)1A-C, 170.2(c)4A, Table  
180.2-D

Flow rate .....Table 120.1-B, 120.6(c), 140.9(c)1,  
Table 160.2-C, Table 160.2-E, Table 160.2-F,

Hood ..... 100.1, 140.9(b), 150.0(o)2B, 160.2(b)2B,

Makeup air..... 120.1(c)4, 140.4(o), 150.2(a)1C,  
160.2(c)4-5D, 180.1(a)2B, 180.1(b)3B,

System ..... 10-103(b), 100.1, 120.1(d)1, 120.1(d)4E,  
120.1(f)1, Table 120.1-B(A), 140.4(o), 140.9(c)3,  
141.1, 150.2(b)1M, 160.2(b)2A, 160.2(b)2A,  
160.2(b)2B, 160.2(c)7A, 160.3(a)2E, 160.3(d)2B,  
160.5(a)2G

**EXHAUST, RETURN, RELIEF, TRANSFER FAN POWER  
ALLOWANCES (WATT/CFM)**.....Table 170.2-C

**EXHAUST, RETURN, RELIEF, TRANSFER FAN POWER  
ALLOWANCES (WATTS/ CFM)** .....Table 140.4-B

**EXISTING**

Buildings.....10-103(a)1C, 10-103(a)2A,  
10-103(a)3D, 10-103(d)2, 10-106(a), 10-111(a)2,  
100.0(e)3, 100.0(e)4, 100.1, 110.0, 110.8(d),  
120.0, 130.0(b),140.0(c), 141.0(b)2D,  
141.0(b)2Q, 150.1(b)2, 150.2(a)1, 150.2(a)2BC,  
180.1(a)2, 180.2(b)5

Conditions..... 100.0(a)2, 100.1, 141.0(a)2B,  
141.0(b)3B, Table 141.0-E, 150.2(b)2B,  
Table 150.2-D, 180.1(b)2, 180.2(c), 180.3(c)2

Current limiters ..... 110.9(c)3

Duct system ..... 141.0(a), 141.0(b)2D, 141.0(b)2E,  
150.2(a), 150.2(b)1D, 150.2(b)1E, 150.2(b)1L,  
180.1, 180.2(b)2A, 180.2(b)2B, 180.2(b)5A

Efficiency .....141.0(b)3D, Table 150.2-D, 180.2(c)

Multifamily buildings ..... 100.0(e)3C, 100.1, 160.5(b),  
180.0, 180.1, 180.2

Nonresidential.....100.0(e)3A, 120.6(b)1G-H,  
120.6(b)2C, 141.0, 141.1

Overcurrent protection device ..... 110.9(d)2

Plus alteration plus addition (E+A+A) .....141.0(a)2,  
150.2(a)2B, 180.1(b)2B

Roof ..... 141.0(b)2B

System ..... Table 120.2-A, 120.6(a)3B, 141.0(a)2,  
141.0(b)3, 150.2(a), 180.1, 180.2

**EXIT SIGN** ..... 130.3(a)1, 140.6(a)3J-K, 140.8(b)6,  
160.5(d)1, 170.2(e)2C, 170.2(e)7B

**EXTENSION** .....10-111(a)2, 141.0(b)2D, 150.2(a)1A-B,  
150.2(b)1D, 180.1(a)1, 180.3(b)2A, 180.3(b)2B

**EXTERIOR**

Ceiling .... 140.3(a)1, 140.3(a)6A, 70.2(a)1, 170.2(a)3B

Door .....10-111, 110.6, 140.3(a)7, Table 140.3-B,  
Table 140.3-C, Table 140.3-D, 141.0(b)2R, 150.2(b)1N,  
170.2(a)4, Table 170.2-A, 180.2(b)1D

Floor..... 140.3(a)4, 170.2(a)5

Roof ..... 140.3(a)1, 140.3(a)6A, 170.2(a)1, 170.2(a)3B

Soffit ..... 140.3(a)4, 170.2(a)

Wall.....110.8(b), 140.3(a)2, 140.3(a)5, 150.0(e)2,  
150.0(g)2, 150.0(j)1, 150.1(c)1B, 150.2(b)1I,  
160.1(d)2, 160.1(f)2, 160.4(f)1, 170.2(a)2A,  
170.2(a)3A

**EXTERNAL INSULATION**..... 110.3(c)3, 110.8(d)2

## F

### FACTORY

Calibrated ..... 120.1(d)4F, 120.5(a)4, 120.6(c)7B,  
140.9(c)3C, 140.9(c)3D, 160.2(c)5D, 160.3(d)1D

-Built fireplace ..... 150.0(e), 160.1(f)

-Fabricated duct system ..... 120.4(b)1, 150.0(m)2,  
160.3(b)5B, 160.3(c)2C

-Installed label ..... 110.9(c)2, 130.0(c)1, 140.3(d)2J,  
160.5(b)1A

**FAN** ..... 120.10(a), 150.0(m)

Airflow ..... 120.6(c)1, 140.4(m), Table 140.4-J,

Table 140.4-K, Table 150.5-H, 150.1(c)12B, Table 160.2-H, 170.2(c)4K, 170.2(c)4O, Table 170.2-I, Table 170.2-J

Array ..... 120.10(a), 140.4(c)1, 170.2(c)4A

Capacity ..... 140.4(c)2, 170.2(c)4A

Control ..... 120.6(j)3, 140.4(m), 170.2(c)4K

CONTROL SYSTEMS ..... Table 140.4-I

Efficacy ..... 150.0(m)12D, 150.0(m)13, 150.0(o)2C, 150.1(b)3B, 150.1(c)10, 160.2(b)1D, 160.2(b)2A, 160.2(b)2B, 160.3(b)5L, 170.1(d)2F, 170.1(d)3B, Table 170.2-K

Energy index (FEI) ..... 120.10(a)

Motor ..... Table 110.2-F, 120.6(a)3A, 120.6(a)7B, 120.6(d)2A, 120.9(b), 140.4(m)3, 140.9(b), 160.4(e)2

Motor demand ..... 120.6(c)2, 120.6(d)2B, 120.6(j)3, 120.9(b)2, 160.4(e)2B, 170.2(c)4K

Power ..... 120.6(a)4G, 120.6(a)8H, 120.6(b)5H, 140.4(c)1, 140.4(m), 140.4(p)1-2, 140.9(a)2, 141.0(b)2C, 170.2(c)3B, 170.2(c)4F

Power allowance ..... 140.4(c)1A, Table 140.4-A, Table 140.4-B, 141.0(b)2C, Table 141.0-D, 170.2(c)4A, Table 170.2-B, Table 170.2-C,

Power Budget ..... 140.4(c)1A, 141.0(b)2C, 170.2(c)4A

Power consumption ..... 140.9(a)2

Power Limitation Pressure Drop Adjustment ..... Table 180.2-D

Pressure ..... 120.2(j)1, 160.3(a)2I

Speed ..... 120.6(a)4G, 120.6(a)8H, 120.6(b)5H, 120.6(j)3, 140.4(h)4B, 150.0(k)1E, 150.0(m)13D, 160.3(b)5L, 170.2(c)4K

Speed control ..... 140.4(h)1, 140.4(m), 150.0(k)1E, 160.5(a)1E, 170.2(c)4F

System ..... 120.6(j)3, 120.10(a), 140.4(c), 140.4(e)1, 140.4(p)1, 140.4(q), 140.9(a)1-2, 140.9(c), Table 141.0-D, 141.0(b)1C, 141.1(a), 150.0(m)7, 160.3(b)5G, 170.2(c)4A

System airflow ..... 140.4(c)1A, 170.2(c)4A

Variable flow ..... 120.5(a)6

-Coil motor ..... 140.4(c)3

-Powered Condensers – Minimum Efficiency Requirements ..... Table 120.6-B

-Powered Condensers – Specific Efficiency Requirements ..... Table 120.6-D

-Powered gas cooler ..... 120.6(a)8, 120.6(b)5, Table 120.6-E

-Type central furnace ..... 110.5(a)

**FAULT DETECTION AND DIAGNOSTICS (FDD)** ..... 120.2(i), 120.5(a)11-12, 160.3(a)2H, 160.3(d)1K-L

**FAULT DETECTION SENSOR** ..... 120.6(i)1-2

**FAULT INDICATOR DISPLAY (FID)** ..... 150.1(c)7A, 150.2(b)1F, 170.2(c)3B, 180.3(b)2A

**FEDERAL AGENCY** ..... 100.0(e)2D, 110.1(b)2

**FEEDER CONDUCTORS** ..... 130.5(c)

**FEEDERS** ..... 141.0(b)2P, 160.3(c)1B, 180.3(b)4B

**FENESTRATION** - Includes the following:

Bay window ..... 150.0(c)

Chromogenic glazing ..... 140.3(a)5B, 140.3(a)5C, 140.3(a)5D, 140.3(a)6B, 140.3(a)6C, 140.3(a)6D, 150.1(c)3A, 170.2(a)3A, 170.2(a)3A, 170.2(a)3A

Clerestory fenestration ... 140.3(d)1, 140.3(d)3B, Table 140.3-C, Table 140.6-A, Table 170.2L

Component Modeling Approach (CMA) ..... 110.6(a)5

Curtain walls ..... 141.0(b)1B, 180.2(a)2D

Dual-glazed ..... 150.0(q)1, 150.2(b)2C, 160.1(e)1, 180.3(c)3

Exterior shading device ..... 150.1(c)4

Exterior window ..... 140.3(a)5

Fenestration ..... 141.0(b)2a, 150.0(q), 150.1(c)3, 150.1(c)5, 150.2(a)1b, 150.2(b)1a, 150.2(b)1b, 170.2(a)3, 180.2(b)1

Fenestration area ..... 140.3(d)3A, 150.0(q)1, 150.1(c)3B-C, 150.2(a)1A, 150.2(a)1B, 150.2(b)1A, 160.1(e)1, 170.2(a)3A, 180.1(a)1A, 180.2(b)1C

Fenestration product ..... 10-111, 100.0(g), 110.6, 150.0(q), 150.1(c)3A, 150.1(c)5, 150.2(b)1B, 160.1(e), 170.2(a)3A, 180.1(a)1B, 180.2(b)1C

Field-fabricated (fenestration, doors) ..... 10-111(a)2, 10-111(b)2C, 110.6(a), 110.6(b)

Garden window ..... 150.0(q)1, 150.2(b)2C, 160.1(e), 180.2(c)3

Glazed door ..... Table 110.6-A, 140.3(a)7, Table 140.3-B, Table 140.3-C, Table 140.3-D, 150.1(c)3A, 150.1(c)5, 170.2(a)3A, 170.2(a)4, 170.2(a)6, Table 180.2-B

Glazing ..... 10-111(d)1, Tale 110.6-B, 120.6(h)4B, 130.1(d)3D, 130.1(d)5, 140.3(a)5, 150.1(c)3B, 150.1(c)4D, 160.1(b)4D, 170.2(a)3A, 170.2(a)3A, 170.2(a)3A, 170.2(a)3B

Glazing area ..... 130.1(d)5, 150.1(c)3A, 160.1(b)4D, 160.5(b)4D, 170.2(a)3A

Glazing height ..... 140.3(d)1C

Glazing material ..... 140.3(c)5, 170.2(a)3B, 170.2(b)5

Greenhouse window ..... 150.0(q)1, 150.2(b)2, 160.1(e)1, 180.2(c)3

Interior shading ..... 140.3(a)5C, 170.2(a)3A  
National fenestration rating council (NFRC) ..... 100.1  
NFRC-100 ..... 10-111(a)1B, 110.6(b)  
NFRC-200 ..... 10-111(a)1B, 110.6(a)3-4, Table  
110.6-B, 140.3(a)5D, 170.2(a)3A  
NFRC-203 ..... 10-111(a)1B, 110.6(a)4  
NFRC-400 ..... 10-111(a)1B, 110.6(a)1  
Operable shading ..... 140.3(d)1D, 150.1(c)4B  
Relative Solar Heat Gain Coefficient (RSHGC) .....  
140.3(a)5C-D, Table 140.3-B, Table 140.3-C,  
141.0(b)2A, Table 141.0-A, 141.0(b)3A, Table 141.0-  
E, 170.2(a)3A, Table 170.2-A, 180.2(b)1C, Table  
180.2-B  
Site-built fenestration ..... 110.6(a)5-6, 150.1(c)3A,  
170.2(a)3A  
Skylight products ..... 150.0(q), 160.1(e)  
Skylight Roof Ratio (SRR) ..... 140.3(a)6A,  
Table 140.3-B, Table 140.3-C, Table 140.3-D,  
170.2(a)3B  
Solar Heat Gain Coefficient (SHGC). ..... 10-111,  
10-112(a), 110.6(a)3, 110.6(b), Table 110.6-B,  
140.3(a)5C-D, 140.3(a)6C, Table 140.3-B,  
Table 140.3-C, Table 140.3-D, Table 140.3-E,  
140.4(b)5, 150.1(c)3, 150.1(c)4, Table 150.1-A,  
150.2(b)1A, 150.2(b)1B, Table 150.2-D,  
170.2(a)3A, 170.2(a)3B  
South-facing ..... 140.3(d)1A, 140.3(d)3B, 150.1(c)4D  
Spandrel panel ..... 120.7(b)6, 141.0(b)1B, 160.1(b)6,  
180.2(a)2D  
Vertical fenestration ..... 140.3(d)2, 140.3(d)3,  
Table 140.3-E, Equation 140.3-C, Table 140.6-A, 141.0(b)2A,  
Table 141.0-A, 150.2(b)1A, 150.2(b)1B, 150.3(a)5D,  
170.2(a)3A, Equation 170.2-A, Table 170.2-L, 180.2(b)1C  
Vertical glazing ..... 130.1(d)5, 140.3(a)5C,  
160.5(b)4D, 170.2(a)3A  
Vertical window ..... 140.3(a)3, 140.3(a)5, 170.2(a)2B,  
170.2(a)3A  
Visible reflectance ..... 140.3(d)2E, 140.3(d)3F  
Visible Transmittance (VT) ..... 10-111, 110.6(a)4,  
Table 110.6-A, Table 110.6-B, 140.3(a)5D, Equation  
140.3-B, 140.3(c)4, 140.3(d)2F, 170.2(a)3A,  
170.2(b)4  
Window area ..... 110.6(a)1, 140.3(a)5A,  
Equation 140.3-B, Equation 170.2-B  
Window film ..... Table 110.6-A, Table 110.6-B,  
141.0(b)3A, Table 141.0-E, Table 141.0-D  
Window operation ..... 150.0(o)1A, 160.2(b)2A  
Window wall ratio ..... Equation 140.3-b, 140.3(d)3B,  
Equation 170.2-B

**FIBERGLASS DUCTS** .. 120.4(b)1B, 150.0(m)2B, 160.3(c)2C  
**FIELD INSPECTION** ..... 110.9(c)1A  
**FIELD VERIFICATION** ..... 10-103(a)1B-C, 10-103(a)2A,  
10-103(a)3C-D, 10-103(a)5, 10-109(a-b), 10-109(j),  
110.1(c)2, 141.0(b)2D, 141.0(b)2E, 150.0(m)1B,  
150.0(m)13, 150.0(o)1C, 150.0(o)2, 150.1(b)3B,  
150.1(c)7A, 150.1(c)9B, 150.1(c)10, 150.2(b)1D,  
150.2(b)1E, 150.2(b)1F, 150.2(b)1M, 160.2(a)1,  
160.2(b)2A, 160.2(b)2B-C, 160.3(b)5A,  
160.3(b)K-L, 160.3(c)2H, 170.1(d), 170.2(c)3B,  
180.1(a)2, 180.1(b)3, 180.3(b)2A, 180.3(b)2B,  
180.3(b)2B, 180.3(b)5  
**FIELD-FABRICATED (DUCTS)** ..... 120.4(b)2A, 150.0(m)3A,  
160.3(b)5C, 160.3(c)2C  
**FILTER DRIER** ..... 150.0(h)3B, 160.3(b)3B  
**FILTRATION FLOW** ..... 150.0(p)1  
**FILTRATION PUMP** ..... 150.0(p)1  
**FIRE DOOR** ..... 110.6(b)  
**FIRE PROTECTION** ..... 150.1(c)5, 170.2(a)4  
**FIRE STATION** ..... 130.0(b)3, Table 140.7-B  
**FIREPLACE** ..... 110.2(c), 110.5(e), 150.0(e), 150.0(m),  
160.1(f), 160.3(b)5A  
**FIRING RATES** ..... 120.6(d)3, 120.9(c), 160.4(e)3  
**FIXED ENTHALPY** ..... Table 140.4-G, 140.4(e)2D,  
Table 170.2-G, 170.2(c)4C  
**FIXED VENTS** ..... 120.4(a)3, 120.7(a)3B, 160.1(a)2C,  
160.3(c)2B, 160.3(c)2H, 180.2(b)2B  
**FIXTURES** ..... 110.3(c)4, 110.9(c)1A, 150.0(n)1B  
**FLAME SPREAD RATING** ..... 110.8(c)  
flexible ducts .....  
..... 120.4(A-B), 150.0(M)1C, 150.0(M)2C, 150.0(M)3A,  
150.0(M)10, 160.3(B)5A, 160.3(B)5B, 160.3(B)5C,  
160.3(B)J, 160.3(C)2A, 160.3(C)2C  
**FLOOR**  
Area ..... 10-103(a)5C, 100.0(f), 110-10(b)1A,  
120.1(c)2, Equation 120.1-F, Equation 120.1-G,  
120.1(d)4E, 120.2(g), 120.4(g)1C, 120.6(b),  
120.7(a)3C, 130.1(d), 140.3(a)9C, 140.3(c),  
140.4(g), 140.6(c)1D, 140.6(c)2D, 140.6(c)3D,  
140.6(c)3H-I, 140.10(a), Table 140.10-A,  
141.0(b)2D, Equation 150.0-B, 150.0(q)1, Table  
150.0-G, 150.1(c)3, 150.1(c)8, 150.1(c)12,  
Equation 150.1-C, 150.2(a)1, 160.1(e)1,  
Equation 160.2-B, 160.2(c)2, Equation 160.2-C,  
160.2(c)5D, Table 160.2-G, 160.3(a)2F,  
160.3(c)2H, 160.5(b)4D, 170.2(a)3A, 170.2(b),  
170.2(e)4A-B, Equation 170.2-C, 170.2(g),  
Equation 170.2-D, Table 170.2-U, 180.1(a)1A,  
180.1(a)2A, 180.1(b)3A



Assembly..... 120.7(c), 141.0(b)1C, 150.1(c)1C,  
160.1(c), 170.2(a)5, 180.2(a)3A

Display and task..... 140.6(c)3H

Insulation .....141.0(b)1C, 150.0(d), 150.1(c)1C,  
Table 150.2-D, 160.1(c), 170.2(a)5, 180.2(a)3

Plan ..... 140.3(c)1, 170.2(b)1

-Mounted Air Conditioners and Condensing Units  
Serving Computer Rooms – Minimum Efficiency  
Requirements ..... Table 110.2-L

**FLOW**

Controls ..... 10-103.1(b)1B, 10-103(c)3B, 120.5(a)6-7,  
140.4(k)5-6, 160.3(d)1F-G, 170.2(c)4I

Grid .....150.0(o)1G, 150.0(o)1H,  
160.2(b)2A, 160.2(b)2A

Hood ..... 150.0(o)1G, 150.0(o)1H, 160.2(b)2A,  
160.2(b)2A

Meter ..... 110.2(e)3

Rate..... 140.4(d)2A, 140.4(k)1, 140.9(b)1B,  
Table 140.9-C, 150.0(p)1, 160.9(c)2A, 170.2(c)4I

-Based controls ..... 110.2(e)

**FLUE DAMPER**..... 110.2(d), Table 110.2-I, 150.0(e)3,  
160.1(f)3

**FLUE GAS** ..... 120.6(d)3, 120.9(c), 160.4(e)3

**FLUID DISTRIBUTION SYSTEM**..... 120.3(a), 160.3(c)

**FLUID TEMPERATURE**..... 110.2(a), Table 110.2-D,  
120.3(c)1, 140.4(h)1, Equation 160.3-A, 170.2(c)4F

**FLUORESCENT LIGHTING**..... 140.6(c)3J, 140.8(b)4,  
170.2(e)7B

**FOAM INSULATION** ..... 110.8(b), 120.4(f), 150.0(m)9,  
160.3(b)5I, 160.3(c)2G

**FOOD PREPARATION EQUIPMENT** .....140.6(a)3E,  
170.2(e)2

**FORCED AIR DUCTS** .....150.0(m)11, 150.0(m)12,  
150.0(m)13, 150.1(c)7, 150.2(b)1F, 160.3(b)5, 170.2(c)3

**FORCED AIR HEATING** .....150.0(h)4, 160.3(b)4

**FOUNDATION WALL**..... Table 110.8-A, 150.0(d)I,  
150.1(c)1C, 160.1(c)4A, 170.2(a)5

**FRAME** ..... Table 110.6-A, Table 110.6-B, 120.7(a)2,  
Equation 170.2-B, 80.2(a)

**FRAMED WALLS**..... 120.7(B), Table 140.3-D, 150.1(c)1B,  
Table 150.1-A, 150.2(a)1A-B, 160.1(b), 180.1(a)1,  
180.1(b)2

**FRAMING FACTOR**.....Table 140.3-A, Table 140.3-B,  
Table 140.3-C, 141.0(b)1B, 150.0(c), 150.0(d), 160.1(a)2B,  
160.1(c)2, Table 170.2-A

**FRAMING MEMBERS**..... 141.0(b)1C, Table 150.1-A

**FREEZER** ..... Table 120.1-A, 120.6(a), Table 120.6-A,  
120.6(b), 140.6(a)3E, Table 160.2-B, 170.2(e)2C

**FULL LOAD RATING CONDITIONS** ..... 120.6(a)3A,  
140.4(c)3, 170.2(c)4A

**FULL OR PARTIAL OFF** ..... 160.5(b)4C

**FULLY ON** ..... 130.1(c)6C, 130.1(c)7, 160.5(b)4C

**FUME HOOD** .....140.9(c)3B

**FUME HOOD INTENSIVE LABORATORIES** ..... 140.9(c)4,  
Table 140.9-D

**FUNCTION**..... 110.2(a)3, 110.9(b)1D, 110.12(a),  
110.12(c)1, 120.8(b)3, 120.8(f)4, 130.1(c)6D, 130.1(f),  
141.0(b)2I, 160.5(b)4C, 160.5(b)4F, 180.3(b)4B

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**P**

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**PERFORMANCE** ..... 110.1(b), 110.1(c), 110.2(f),

140.0(c), 140.3(a)6, 141.0(a)2, 141.0(b)3, 150.1(a), 150.1(b)3, 150.2(a)2, 150.2(b)2	<b>PLENUM</b> .....120.1(e), 120.4, 120.4(a), 120.4(b), 140.4(o), 140.9(c), 141.0(b), 150.0(m)1, 150.0(m)13, 150.2(b)1D, 150.2(b)1E, 160.2(c)6, 160.3(c)2, 170.2(c)
<b>PERFORMANCE COMPLIANCE APPROACH</b> .....140.0(c), 140.1, 140.4(a), 141.0, 150.0(m)13, 170.1, 180.0, 180.1(b), 180.2(c)	<b>PLUG-IN BUSWAY</b> ..... 130.0(c)6, 160.5(b)
<b>PERFORMANCE REQUIREMENTS</b> ..... Table 110.2-F, 110.8(i)4, Table 110.8-C, 170.2(c)	<b>PLUMBING</b> ..... 110.3(a), 110.3(c), 110.10(b), 110.10(c), 120.6(e), 150.0(j), 150.0(n), 150.0(v), 160.4(c), 160.9(c)
<b>PERFORMANCE REQUIREMENTS FOR HEAT REJECTION EQUIPMENT</b> ..... Table 110.2-F	<b>POLYETHYLENE</b> ..... 110.8(b)
<b>PERIMETER INSULATION</b> ..... 150.0(f), 150.1(c)1, 170.2(a)	<b>POOL</b> ..... 110.4, 110.5, 110.5(c), Table 120.1-A, 120.1(h), 150.0(p), Table 160.2-B, 160.2(d), 160.7(b)
<b>PERMANENT LABEL</b> ..... 110.6(a)5, 110.9(c), 110.9(d)	<b>POROUS INNER CORE FLEX DUCT</b> ..... 150.0(m)10, 160.3(b)G-L
<b>PERMANENT MARKING</b> ..... 130.5(d)	<b>POTENTIAL SOLAR ZONE</b> ..... 110.10(b)1A, 110.10(b)1B
<b>PERMANENTLY INSTALLED STATIC PRESSURE PROBE (PSPP)</b> ..... 150.0(m)13	<b>POUNDS/SQUARE FOOT</b> .....110.6(a)1
<b>PERMITS</b> ..... 120.2(e), 150.0(k), 160.5(a)	<b>POWER</b>
<b>PET DOOR</b> ..... 110.6(a)1	Consumption ..... 110.9(b)3, 140.9(a), 140.9(c), 141.0(b)2L
<b>PETROLEUM GAS</b> .....	Rating..... 120.6(e), 130.0(c)6
<b>PHOTOSYNTHETIC PHOTON EFFICACY (PPE)</b> ..... 120.6(h)	Strip ..... 130.5(d), 160.6(d)
<b>PHOTOVOLTAIC (PV)</b>	Supply .....110.11(a), 130.0(c)5, 130.5(d), 140.8(b), Table 140.9-B, 141.1(b), 160.5(b), 170.2(d)
Capacity Factors..... Table 140.10-A, Table 170.2-U	Supply efficiency.....140.8(b)3, 140.8(b)5, 170.2(d)
System .....110.10(a), 140.1(a), 140.1(b), 140.10(a), 150.1(c)14, 150.1(c)8, 150.2(a), 170.1(a), 170.1(b)	Trade-offs ..... 140.7(b), 170.2(d)
Panel ..... 140.3(a)1, 141.0(b)2B, 150.1(c)11, 150.2(b)1I, 170.2(a)1, 180.2(b)1A	Venting ..... 110.2(d), 110.2(f)
Requirements (more than three stories)..... 170.2(g)	<b>PPM</b> ..... 120.1(d), 120.6(c), 160.2(c)
Requirements (three habitable stories or less) .....150.1(C), 170.2(f)	<b>PRE-COOLING</b> ..... 170.1(d)
<b>PILOT LIGHT</b> ..... 110.5	<b>PRECOOLING COILS</b> ..... 140.4(e)3, 170.2(c)
<b>PIPE</b>	<b>PREEXISTING ENERGY CONSUMPTION</b> ..... 141.0(c), 180.3
Diameter ..... Table 120.3-A, 150.0(p), Table 160.3-D, Table 160.4-A	<b>PRE-OCCUPANCY</b> ..... 120.1(d), 160.2(c)5
Insulation ..... 120.3, 120.3(b), Table 120.3-A, 150.0(j), 150.2(b)1H, 160.3(c)1, Table 160.4-A, 160.4(f), 180.2(b)	<b>PRECISION COMMERCIAL AND INDUSTRIAL WORK</b> ..... 140.6(b)4
Insulation Buried Below Grade.... 120.3(b), 160.3(c)1, 160.4(f)	<b>PRESCRIPTIVE</b>
Insulation Thickness..... Table 120.3-A, Table 160.3-D	Compliance Approach ..... 140.0, 140.1, 140.2, 140.0(c), 141.0(a)1, 141.0(b)2, 150.1, 150.2(a)1, 150.2(b)1, 170.2, 180.0, 180.1(a), 180.2(b)
Insulation Thickness – Multifamily Domestic Hot Water ..... Table 160.4-A	Requirements ..... 140.1, 140.3, 140.4, 140.5, 140.6, 140.7, 140.8, 140.9, 140.9(b), 140.9(c), 140.10, 170.1(a), 170.2
Sizing (compressed air) ..... 120.6(e)	Standards..... 110.1(b), 110.1(c), 150.1(a), 150.1(c), 170.0, 170.2
<b>PIPING</b> ..... 110.4(b), 120.3(a), 120.3(b), 120.6(e), 150.0(j), 150.0(n), 150.0(p), 150.2(a), 150.2(b), 160.3(b)6, 160.3(c), 160.4(f), 180.2(b)	<b>PRESCRIPTIVE VENTILATION SYSTEM DUCT SIZING [ASHRAE 62.2: TABLE 5-3]...</b> Table 150.0-H, Table 160.2-H
<b>PIPING SYSTEM (COMPRESSED AIR)</b> ..... 120.6(e)	<b>PRESCRIPTIVE ENVELOPE CRITERIA FOR GUEST ROOMS OF HOTEL/MOTEL BUILDINGS</b> ..... Table 140.3-C
<b>PLASTIC SHEATHING</b> ..... 110.8(b)	<b>PRESCRIPTIVE ENVELOPE CRITERIA FOR NONRESIDENTIAL BUILDINGS (INCLUDING RELOCATABLE PUBLIC SCHOOL BUILDINGS (WHERE MANUFACTURER CERTIFIES USE ONLY IN SPECIFIC CLIMATE ZONE; NOT</b>



**INCLUDING HIGH-RISE RESIDENTIAL BUILDINGS AND GUEST ROOMS OF...)**.....Table 140.3-B  
**PRESCRIPTIVE ENVELOPE CRITERIA FOR RELOCATABLE PUBLIC SCHOOL BUILDINGS FOR USE IN ALL CLIMATE ZONES** ..... Table 140.3-D

**PRESSURE**

Class..... 120.4(b), 160.3(c)2  
 Differential.....140.3(a)9, 140.4(o), 170.2(c)4M  
 Drop ..... 120.6(d), 140.4(c), Table 140.4-A, 140.4(e)3, 150.0(m)12, 150.0(m)13, 150.0(o), 150.0(p), Table 150.0-B, Table 150.0-C, 150.1(c)7, 150.2(b)1F, 160.2(b)1, Table 160.3-A, Table 160.3-B, 170.2(c)3, Table 170.2-B, 180.2(b)2, Table 180.2-D  
 Sensor ..... 140.0(c), 140.4(k)6, 170.2(c)4  
 -Sensitive tape ..... 120.4(b)2, 120.4(c), 160.3(c)2

**PRESSURIZATION**..... Table 140.4-B, 140.9(b), 140.9(c)3, Table 170.2-C

**PRIMARY SIDELIT DAYLIT ZONE** ..... 130.1(d), 140.3(c), Table 140.6-A, 140.6(a)3, 140.6(d), 160.5(b)4, 170.2(b)

**PROCESS**

Boiler..... 120.6(d)  
 Process equipment ..... 120.6(i)  
 Process facility ..... 140.9(c), 141.1  
 Process loads ..... 140.4(b)8, 140.4(c)3, 140.4(d), 140.4(f)

**PROGRAMMABLE TIMER** ..... 120.2(e)

**PROJECT DOCUMENTATION REQUIREMENTS**..... 120.8(b)

**PROJECTION FACTOR** ..... 140.3(d)2, 140.3(d)3, Table 140.3-E, 170.2(a)

**PROPANE** ..... 150.0(n), 150.0(t),150.0(u), 150.0(v), 150.2(b)1H, 160.4(a), 160.9(a), 160.9(b), 160.9(c), 170.2(d)3, 180.2(b)3

**PROPELLER FAN**..... 140.4(h), 170.2(c)

**PROPOSED DESIGN**..... 140.1, 170.1, 140.4(b)5, 141.0(a)2, 141.0(b)3, 150.1(b)1, 150.1(b)3, 150.2(a)2B, 150.2(b)2, 170.1, 180.2(c)

**PROPOSED EFFICIENCY**.....Table 141.0-E, Table 150.2-D

**PROTECTION OF INSULATION** .....120.4(f), 150.0(m), 160.3(b)G-L

**PUBLIC**

Art..... 130.2(b)  
 Garage ..... 150.0(o)  
 Health standards..... 110.4(b)  
 Monument.....130.2(b), 140.7(a), 140.7(c), 170.2(e)  
 Restroom ..... 130.1(a)  
 Streets..... 140.7(a), 170.2(e)

**PUMP**

Flow rate..... 140.4(k)1, 150.0(p), 170.2(c)4I  
 Isolation valve..... 110.3(c)4  
 Motor.....110.2(f), 140.4(k)6, 150.0(p), 170.2(c)4  
 Pressure..... 120.2(j), 160.3(a)  
 Priming ..... 110.3(c)4  
 Sizing..... 150.0(p)  
 System power .....140.4(k)1, 140.4(k)5, 170.2(c)4I

**Q**

**QUALIFYING LIGHTING SYSTEMS**..... 140.6(c), 170.2(e)4

**QUALITY INSULATION INSTALLATION (QII)** ..... 150.1(b)3, 150.1(c)1, 150.2(a)1A, 150.2(a)1B, 170.1(d), Table 170.2-A, 170.2(a)6, 180.1(a)1

**R**

**R-4.2** .....120.4(a), 160.3(c)

**R-8** ..... 120.4(a), Table 150.1-A, Table 150.2-A, 160.3(c), Table 170.2-K, Table 180.2-C

**RADIANT BARRIER**.....110.8, 110.8(j), 150.1(c)2, Table 150.1-A, 150.2(a)1B, 150.2(b)1I, 170.2(a)1, Table 170.2-A, 180.1(a)1, 180.2(a)

**RADIATION** ..... 110.8(g), 110.9(b)6, 120.3(b), 120.4(f), 150.0(m)

**RAFTER AREA** ..... 150.2(b)2

**RAFTER CEILING** ..... 150.2(a)1B

**RAFTER ROOF INSULATION**.....150.0(a)

**RAINWATER CATCHMENT**..... 110.10(b)1A, 110.10(b)1B

**RAISED**

Floor.....141.0(b), 150.0(d), 150.1(c)1, 170.2(a)5, 180.2(a)2

Floor insulation..... 150.0(d)

Framed floor ..... 141.0(b)1C, 180.2(a)

Mass floor..... 120.7(c)1, 141.0(b)1C, 160.1(c), 180.2(a)

Wood Floor..... 160.1(c)

**RATED**

Airflow .....140.4(e)2

Capacity ..... 140.4(h), 170.2(c)

Efficiency ..... 140.4(h)

Energy capacity..... 140.10(b), 170.2(h)

Output ..... 140.8(b)3

Power capacity ..... 140.10(b), 170.2(h)

Volume ..... 150.1(c)8

<b>READILY ACCESSIBLE CONTROL</b> .....	150.0(e), 160.1(f), 160.5(a)2, 160.5(b)4	<b>RELIGIOUS WORSHIP</b> .....	Table 120.2-A, 140.6(a)3G, H, I, Table 140.6-C, Table 140.6-D
<b>RECEPTACLE CONTROL</b> .....	130.4(a)	<b>RELOCATABLE PUBLIC SCHOOL BUILDING</b> .....	140.3(a)8, 140.3(a)9, Table 140.3-B, Table 140.3-D, 141.0(b)3
<b>RECIRCULATED AIR</b> .....	120.1(c)1, 120.1(c)4, 150.0(m), 160.1(b), 160.2(c)1	<b>REMOTE HEATER</b> .....	110.3(c)1
<b>RECIRCULATING SYSTEM PIPING</b> .....	120.3(a)	<b>REMOVABLE CEILING PANEL</b> .....	120.7(a)3
<b>RECIRCULATION</b> .....	120.1(g)	<b>RENEWABLE ELECTRIC GENERATION SYSTEM</b> ....	140.1(b), 150.1(b)1
Distribution system....	150.0(n), 150.1(c), 150.2(b)1H, 170.2(d), 180.2(b)3	<b>REPAIRS</b> .....	10-106(a), 141.0, 141.0(b)2A, 141.0(c), 141.0(d), 150.2(b)1B, 180.0, 180.3
Limitations (air).....	120.1(g), 160.2(c)8	<b>REPLACEMENT</b> .....	Table 110.2-E, 110.3(c), 110.6(a)2, 110.6(a)3, 110.6(a)4, 110.9(c), 110.9(d), 120.6(i), 141.0(b)2C, 141.0(b)2D, 141.0(b)2E, 141.0(b)2L-R, 150.2(b)1C-I, 150.2(b)1L, 150.2(b)2, 160.5(c), 170.2(b)4F, 180.1
Loop ...	110.3(c)4, 150.0(n), 150.1(c)8, 160.4, 170.2(d)	<b>REPLACEMENT VENTILATION FAN</b> .....	150.2(b), 180.2(b)5
<b>RECOOLING</b> .....	120.6(j), 140.4(d), 170.1(d), 170.2(d)	<b>REPLICA</b> .....	140.6(a)3 P, Q, R, 140.7(a), 170.2(e)
<b>RECOVERED ENERGY</b> .....	110.3(c)5, 110.4(a)	<b>REPRESENTATIVE TEST FLOOR</b> .....	140.3(a)9
<b>RECOVERY CAPACITY</b> .....	10-115(a), 110.2(e), 110.12(c), 140.4(i)	<b>REQUIREMENTS FOR SIGNS</b> .....	140.8, 170.2(e)7
<b>RECOVERY EFFICIENCY</b> .....	160.2(b)2B, 170.2(c)3B, Table 170.2-K	<b>RESERVED SPACE (ELECTRICAL SERVICE PANEL)</b> .....	110.10(e), 150.0(n), 150.0(t)2, 150.0(u)2, 150.0(v), 160.9(a), 160.9(b), 160.9(c), 160.9(e), 160.9
<b>REDUCTION CREDITS</b> .....	10-115(a), 150.1(b)1, 170.2(e)2	<b>RESET CONTROL</b> .....	10-103.1(c), 120.2(e), 120.5(a), 140.4(c), 140.4(f), 140.6(c), 160.3(a),
<b>REFERENCE APPENDICES</b> .....	10-103(a), 110.0(b)	<b>RESIDENTIAL ACM REFERENCE MANUAL</b> .....	141.0(b), 150.1(b)1, 150.2(b)2, 170.2(b)
<b>REFRIGERANT</b> .....	110.2(f), Table 110.2-G, Table 110.2-H, 120.3(a), 120.3, Table 120.3-A, Table 120.6-B, Table 120.6-C, Table 120.6-E, 150.1(c), Table 150.1-A, 150.2(b)1F, Table 150.2-D, Table 160.3-D, 160.3(c)1, 160.4(f), 170.2(c), Table 170.2-K	<b>RESIDENTIAL APPENDIX</b>	
<b>REFRIGERANT CHARGE</b> .....	120.6(b), 150.1(c)7, Table 150.1-A, 150.2(b)1F, Table 150.2-D, 170.2(c), Table 170.2-K, 180.2(b)2A	RA3 .....	150.0(m)1, 150.0(m)13, 150.0(o), 150.1(b)3, 150.1(c)1, 150.1(c)10, 150.1(c)7, 150.1(c)8, 150.1(c)9, 150.2(b)1D, 150.2(b)1E, 150.2(b)1F
<b>REFRIGERANT CHARGE VERIFICATION</b> .....	150.1(c)7, 170.2(c)3, Table 170.2-K	RA3.1 .....	150.0(m)11, 160.3(b)G-L, 180.2(b)
<b>REFRIGERANT CIRCUIT</b> .....	140.4(h)	RA3.2.2 .....	170.2(c)3
<b>REFRIGERATED DISPLAY CASE</b> .....	120.6(b)3	RA3.2.3.1 .....	150.1(c), 150.2(c), 170.2(c)3
<b>REFRIGERATED WAREHOUSE</b> .....	110.2(a), 120.6(a), 120.6(a)5, 120.6(a)7, 140.3(c)	RA3.4.2 .....	150.1(c), 150.2(b), 170.2(c)3, 180.3(b)
<b>REFRIGERATED WAREHOUSE INSULATION</b> .	Table 120.6-A	RA3.4.4.3 .....	150.1(b), 170.1(d)
<b>REFRIGERATION (SUPERMARKET SYSTEMS)</b> .....	140.4(e)1	RA3.5. ....	150.1(b), 150.1(c), 170.1(d), 170.2(a)6
<b>REFRIGERATION COMPRESSOR SYSTEM</b> .....	120.6(b)2	RA3.6.9 .....	150.1(c)8, 170.2(d)
<b>REFRIGERATION SYSTEM</b> .....	120.6(a)4, 120.6(a)5, 120.6(a)7, 120.6(a)8, 120.6(b)1	RA3.7 .....	150.0(o), 150.1(c), 150.2(b)1M, 160.2(a), 170.2(c), 180.2(b)
<b>REHEAT</b> .....	120.6(h), 120.6(j), 140.4(d), Table 140.4-A, Table 170.2-B, 170.2(c)	RA3.7.4.4 .....	150.0(o), 160.2(b)2B
<b>RELAMPING RATED WATTAGE</b> .....	130.0(c)1, 130.0(c)2, 160.5(b)	RA4 .....	110.10(b)1A, 150.0(d), 150.1(c)1, 150.1(c)2, 150.1(c)8, 150.2(b)1H, 170.2(a), 170.2(d), 180.2(b)
<b>RELATIVE HUMIDITY (RH)</b> .....	Table 140.4-G, 140.4(e)2, 170.2(c)	<b>RESIDENTIAL OCCUPANCIES</b> .....	110.3(a)1
<b>RELIEF AIR SYSTEM</b> .....	140.4(d), 170.2(c)4C	<b>RESIDENTIAL SPACE TYPE</b> - Includes the following:	
<b>RELIEF FAN</b> .....	140.4(c)1, 170.2(c)	Bathroom.....	150.0(k)2, 150.0(o), 160.2(b)2A, 180.2(b)5
		Closet.....	130.1(c)2

Garage .....	150.0(k)2, 150.1(c)5, 150.1(c)8, 150.2(b)1D, 150.2(b)1E, 160.5(a)1	Steep-sloped .....	110.10(b)1A, 110.10(b)1B, 110.10(b)2, 140.3(a)1, 141.0(b)2B, 150.1(c)11, 150.2(b)1I, 180.2(b)1
Kitchen .....	130.5(d), 160.6(d), 180.2(b)5	Surface .....	110.8(i)4
Laundry room .....	150.0(k)2, 160.5(a)2	<b>ROOF/CEILING INSULATION</b> .....	120.7(a), Table 140.3, Table 141.0-B, 141.0(b), Table 141.0-E, 180.2(a), Table 180.2-A, 180.2(a), 180.2(b)1
Utility room .....	150.0(k)2, 160.5(a)2	<b>ROOF/CEILING INSULATION TRADEOFF</b> .....	140.3(a)1, Table 140.3, Table 141.0-B, Table 141.0-E, Table 180.2-A
<b>RETURN</b>		<b>ROOF/CEILING INSULATION TRADEOFF FOR AGED SOLAR REFLECTANCE – NONRESIDENTIAL BUILDINGS</b> .....	Table 140.3
Air .....	Table 110.2-L, Table 110.2-M, 120.2(i), 120.4(a), Table 140.4-G, 140.4(e), 140.4(o), 150.0(m)1, 160.3(a), 160.3(c)2, Table 170.2-G, 170.2(c)	<b>ROOF/CEILING INSULATION TRADEOFF FOR LOW- SLOPED AGED SOLAR REFLECTANCE</b> .....	Table 141.0-B, Table 180.2-A
Air damper .....	140.4(e)1, 140.4(e)2, 170.2(c)4	<b>ROOFING</b> .....	10.113(a), 10-113(b), 10-113(c), 10-113(d), 110.8(h), 140.3(a), Table 140.3-A, 141.0(b), Table 150.1- A, 150.1(c)11, 150.2(a), Table 150.2-B, 170.2(a)
Air plenum .....	140.4(o), 170.2(c)	<b>ROOFING PRODUCT</b> .....	10-113(a), 10-113(b), 10-113(c), 110.8, 110.8(i)1, 110.8(i)2, 110.8(i)3, 140.3(a), Table 140.3-D, 141.0(b)2B, 150.1(c), Table 150.1-A, Table 150.2-D, 170.2(a)1
Duct .....	Table 150.0-B, Table 150.0-C, 150.1(c)13, Table 160.3-A, Table 160.3-B, 170.2(c)3	<b>ROOM</b>	
Fan .....	140.4(c)1, 170.2(c)4A	Air conditioner .....	110.2(b), 110.2(c)
Grille .....	150.0(m)13, Table 150.0-B, Table 150.0-C, 160.3(b), Table 160.3-A, Table 160.3-B	Air conditioner heat pump .....	110.2(c)
Line .....	110.3(c), 110.4(b), 150.0(p)	Air temperature .....	140.4(f), 170.2(c)3
Loop .....	110.3(c)4	Cavity ratio (RCR) .....	140.6(c)3F, G, 170.2(e)4
Plenum .....	120.1(e), 160.2(c)6	<b>ROOM CAVITY RATIO (RCR) EQUATIONS</b> .....	Table 140.6-F, Table 170.2-P
<b>RETURN DUCT SIZING FOR MULTIPLE RETURN DUCT SYSTEMS</b> .....	Table 150.0-C, Table 160.3-B	<b>ROUGH-IN</b> .....	150.0(m)11
<b>RETURN DUCT SIZING FOR SINGLE RETURN DUCT SYSTEMS</b> .....	Table 150.0-B, Table 160.3-A	<b>ROUND-TRIP EFFICIENCY</b> .....	140.10(b), 170.2(h)
<b>RIGID BOARD INSULATION</b> .....	140.3(a)9	<b>R-VALUE</b> .....	110.3(c)3, 110.8(d)1, 110.8(d)2, Table 110.8-A, 110.8(h), 120.3(c), Table 120.3-A, 120.4(c), 120.4(d), 120.4(e), Table 120.6-A, 120.6(a)1, Table 141.0-C, 141.0(b)2B, 150.0(b), 150.0(c), 150.0(d), 150.0(m)4, 150.0(m)5, 150.0(m)6, 150.1(c)1, Table 150.2- A, Table 150.2-B, Table 150.2-C, Table 150.2-D, 150.2(b)2, 160.3(b)5D-F, 160.3(c)1, Table 160.3-D, Table 160.4-A, 170.2(a), 180.1(a), Table 180.2-A, Table 180.2-C
<b>RIGID DUCTS</b> .....	120.4(d), 150.0(m)5, 160.3(b)5	<b>S</b>	
<b>ROOF</b> .....	110.10(b)1A, 110.10(b)1B, 110.10(b)3, 110.10(b)4, 120.7(a), 141.0(a)2, 150.0(c), 150.2(b)1I	<b>SAFETY FACTOR (DESIGN LOADS)</b> .....	140.4(b)11, Table 140.6-F, 170.2(c)2
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Pole circuit breaker space .....	150.0(n), 160.4(a)
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120.5(a)14, 140.4(i), 140.4(j), 160.3(d)1  
Envelope ..... 150.0(m)1, 160.2(c)1, 160.3(b)5  
Performance ..... 110.8(a), 120.4(e), 150.0(m)6,  
160.3(b), 160.3(c)  
Resistance ..... 141.0(b)2B, 150.0(a), 150.0(c),  
150.2(a)1D, 150.2(b)1H, 160.1(a), 180.2(b)  
**THERMOSTAT** ..... 110.10(b)1A, 110.10(b)1B, 110.12(a),  
110.2(b), 110.2(c), 120.2(a), 120.2(b), 120.2(c), 120.2(e),  
120.2(i), 141.0(b)2E, 150.0(i), 150.1(c)7, 150.2(b)1F,  
160.3(a)1  
**THERMOSTATIC CONTROLS** ..... 120.2(a), 120.2(b),  
120.6(a)2, 140.4(n), 160.3(a)2  
**THICKNESS** ..... 120.3(c)

**THIRD PARTY VERIFICATION** ..... 141.0(b)3, 150.2(b)2  
**THREE HABITABLE STORIES OR LESS** ..... 110.8(d)1,  
110.10(a), 110.10(b), 160.2(a), 170.2(a)5, 170.2(a)6,  
Table 170.2-A, 170.2(f), 170.2(g), 170.2(h), 180.1(a),  
180.1(b)  
**TIME DEPENDENT VALUATION (TDV) ENERGY** ...140.1(a),  
140.1(b), 140.1(c), 140.4(e)1, 140.4(a), 141.0(a)2,  
150.1(b)1, 150.1(b)2, 150.2(a)2B, 170.1(a), 170.1(b),  
170.1(c), 170.1(d), 180.1(b)  
**TIMED OVERRIDE** ..... 120.6(b)3, 140.9(b)  
**TIMES OF OCCUPANCY**..... 120.1(d), 160.2(c)5  
**TITLE 24, PART 1** ..... 10-103(c), 110.1(c), 120.1(a),  
120.5(b), 120.8, 130.4(c), 140.7(a), 160.2(a), 160.3(d),  
160.5(e), 170.2(e)  
**TITLE 24, PART 11** ..... 110.10(b), 120.8, 130.2(b), 160.5(c)  
**TITLE 24, PART 9** ..... 110.10(b)1  
**TOTAL AIRFLOW (COMPRESSED AIR SYSTEM)** ..... 120.6(e)  
**TOTAL CAPACITY (ELECTRIC RESISTANCE HEATING)**  
..... 140.4(g)  
**TOTAL HEAT OF REJECTION** ..... 120.6(a)4, 120.6(a)8,  
120.6(b)4, 120.6(b)5  
**TOWER FLOW TURNDOWN** ..... 140.4(h), 170.2(c)4F  
**TRANSCRITICAL CO<sub>2</sub> FAN-POWERED GAS COOLERS**  
**MINIMUM EFFICIENCY REQUIREMENTS** ..... 120.6(a),  
Table 120.6-C, Table 120.6-E, 120.6(b)  
**TRANSCRITICAL CO<sub>2</sub> GAS COOLERS** .. 120.6(a)8, 120.6(b)5  
**TRANSCRITICAL CO<sub>2</sub> REFRIGERATION** ..... 120.6(b)2,  
120.6(b)5  
**TRANSFER AIR** .... 120.1(c)4, 140.4(o), 140.9(b), 140.9(c)1,  
140.9(c)2, 160.2(c)8, 170.2(c)4M  
**TRANSFER SWITCH** ..... 150.0(s)  
**TRANSFORMER** ..... 110.11(a), 130.0(c)1, 130.0(c)2,  
130.0(c)6, 140.8(b)3, 160.5(b)1, 170.2(e)7  
**TRANSPORTATION FACILITIES** ..... 140.6(a)3 D, E, F  
**TRIM COMPRESSOR** ..... 120.6(e)  
**TUBULAR DAYLIGHTING DEVICE** ..... 110.6(a)4,  
Table 140.3-B  
**TUBULAR SKYLIGHT** ..... 150.1(c)3  
**TUNNEL** ..... 130.2(c), 130.3(a)2, 140.7(a), 140.7(d),  
Table 140.7-B, 170.2(e), Table 170.2-S  
**TYPE B VENT** ..... 160.4(a)

## U

**U.S. DEPARTMENT OF ENERGY** ..... 110.1(c), 110.2(f)

**U-FACTOR** ..... 110.6(a)2, Table 110.6-A, 110.6(b), 120.7(a)1, 120.7(a)2, 120.7(b)1, 120.7(b)2, 120.7(b)3, 120.7(b)4, 120.7(b)6, 120.7(c)1, 120.7(c)2, Table 140.3-A, 140.3(a)1, 140.3(a)2, 140.3(a)3, 140.3(a)4, 140.3(a)5, 140.3(a)6, 140.3(a)7, Table 140.3-B, Table 140.3-C, Table 140.3-D, Table 141.0-A, Table 141.0-B, Table 141.0-C, 141.0(b)2B, Table 141.0-E, 141.0(b)3, 150.0(a), 150.0(c), 150.0(d), 150.0(q), 150.1(c)1, 150.1(c)3, Table 150.1-A, 150.1(c)5, 150.1(c)8, 150.2(b)1A, 150.2(b)1B, 150.2(b)1N, 150.2(b)2, Table 150.2-D, 160.1(a), 160.1(b), 160.1(c), 160.1(e), 160.3(c)2H, 170.2(a)2, 170.2(a)4, 170.2(a)5, Table 170.2-A, 180.1(a)1, 180.2(a), 180.2(b)1, 2, 180.2(c)

**ULTRASONIC RADIATION** ..... 110.9(b)6

**ULTRASONIC SENSOR** ..... 140.6(a)3, 170.2(e)2

**ULTRASOUND MAXIMUM DECIBEL VALUES**  
.....Table 110.9-A

**ULTRAVIOLET LIGHT** ..... 150.0(f)

**ULTRAVIOLET RADIATION** ..... 110.8(g)2

**UNCONDITIONED**

Agricultural building ..... 140.6(a)3P

Area ..... 140.6(b)1, 170.2(e)3

Crawlspce..... 160.3(c)2, 180.2(b)2

Space .....120.4(a), 120.4(g), 120.7(a), 120.7(b), 120.7(c), 140.3(a)3, 140.3(a)7, 140.3(c), 140.6(b)3, 141.0(b)1A, 141.0(b)1B, 141.0(b)1C, 150.0(a), 150.0(c), 150.0(d), 150.0(k)1, 150.0(m)1, 150.0(q), 150.1(c)5, 150.2(a)1A, 150.2(b)1D, 160.1(a), 160.1(b), 160.1(c), 160.1(e), 160.3(b)5, 160.3(c), 170.2(a)4, 170.2(e)3, 180.2(a), 180.2(b)2

**UNDERSHELF LIGHTING** ..... 150.0(k)2, 160.5(a)

**UNDERWRITERS LABORATORIES (UL)** ..... 110.2(f), 120.4(b)1, 2, 120.4(c), 130.0(c), 150.0(m)1, 150.0(m)2, 150.0(m)3, 160.3(b)5A-F, 160.3(c)2, 160.5(b)1

**UNFILTERED INCANDESCENT LAMPS** ..... 140.8(b)6

**UNFRAMED WALL** ..... 150.1(c)1

**UNINTERRUPTIBLE POWER SUPPLY (UPS)** ..... 110.11(a), 130.5(d), Table 140.9-B, 140.9(a)4, 141.1, 160.6(d)3

**UNIT CONTROLS (SPACE CONDITIONING SYSTEM)**  
.....140.4(e)2, 160.3(d)1, 170.2(c)4C

**UNOCCUPIED** .....120.1(d), 120.6(c), 120.6(f), 130.1(c)1, 130.1(c)6, 130.1(c)7, 130.2(c)2, 130.5(d), 140.9(a), 140.9(c), 160.2(c)5, 160.5(b)4, 160.5(c)2, 160.6(d)1

**UNUSED CONDUCTOR** ..... 160.4

**UNVENTED ATTIC** ..... 150.0(a), 150.0(g), 160.1(a)

**UNVENTED CRAWLSPACE** ..... 150.0(d), 150.0(g), 160.1(c), 160.1(d)

**UREA FORMALDEHYDE** ..... 110.8(b)

**UTILITY COMPANY** ..... 130.5(a)

**UTILITY ENERGY REDUCTION CREDITS** ..... 140.1(b), 150.1(b)1, 170.1(b)

## V

**VALUES OF SOILING RESISTANCE B BY PRODUCT TYPE**  
.....Table 110.8-B

**VAPOR BARRIER** ..... 150.0(m)10, 160.3(b)5

**VAPOR RETARDER** ..... 110.8(b), 120.3(b), 120.3(c), 120.4(c), 120.4(e), 150.0(d), 150.0(g), 150.0(m)4, 150.0(m)6, 150.1(c)1, 160.1(d), 160.3(c)1, 160.4(f)2

### VARIABLE

Air Volume (VAV) ..... 120.10(a), 140.4(c)2, 140.4(d), 140.9(c)4, 141.0(a)2, 141.0(b)3, 160.2(c)7, 170.2(c)4A, 170.2(c)4B, Table 170.2-B, Table 170.2-C, Table 180.2-D

Capacity Heat Pump (VCHP) ..... 150.1(b)3, 170.1(d)2

Exhaust ..... 140.9(c)3

Flow control ..... 140.4(k)6, 160.3(d), 170.2(c)4I

Fluid flow ..... 140.4(k)1, 170.2(c)4I

Speed ..... 120.6(a), 120.6(b)5

Speed compressor ..... 120.6(a)3, 120.6(a)7, 150.0(m)13, 160.3(b)5L

Speed control ..... 140.4(k)6, 140.9(b)

Speed drive ..... 120.6(e), 120.9(b), 140.4(c)1, 140.4(k)6, 160.4(e), 170.2(c)4I

Speed fan ..... 120.6(a)4, 120.6(a)8, 120.6(b)1, 150.0(o), 160.2(b)2

Ventilation ..... 150.0(o), 160.2(b)2A

**VENDING MACHINE** ..... 140.6(a)3J, K, L

**VENT DAMPER** ..... 110.2(d), 110.2(f)

**VENTED ATTIC** ..... 150.0(a), 150.0(g), 150.2(b)1J, 160.1(a), 160.1(d), 180.2(b)1

**VENTED RANGE HOOD** ..... 150.0(o), Table 150.0-E, 150.0(v), 160.2(b)2B, Table 160.2-E

**VENTILATED ATTIC** ..... 150.1(c)9, 170.2(c), 180.2(a)1

**VENTILATION** ..... 120.1, 140.4(b)4, 150.0(o), 160.3(d)2

Air .... 120.1(d), 120.2(e), 130.1(f), 140.4(e), 140.4(m), 140.9(b), 150.0(o), 150.1(b), 150.2(a)2C, 160.2(b)2B, 160.2(c), 160.5(b), 170.1(d), 170.2(c), 180.1(a), 180.3(a)

And Indoor Air Quality ..... 120.1, 150.0(o), 160.2(b)2

Cooling ..... 150.1(b)3, 150.1(c)12, 150.2(a), 170.1(d)

Dampers ..... 150.0(m)8, 160.3(b)

Device ..... 10-103(b), 120.1(d), 160.2(c)5

Doors ..... 120.6(f)

Fan ..... 120.6(f), 150.2(b)1L, 180.2(b)



Load ..... 140.4(b)4, 170.2(c)  
 Only..... 120.1(h)  
 Rate..... 120.1(a), 120.1(d), 120.1(f), Table 120.1-A,  
 120.6(c), 140.4(b)4, 140.4(o), 140.9(b), 150.0(o),  
 160.2(a), 160.2(b), Table 160.2-B, 170.2(c)2,  
 170.2(c)4M  
 Requirements ..... 120.7(a), 120.8(b)  
 System ..... 10-103(b), 10-103.2(b), 10.103.2(c),  
 120.1(c), 120.1(d), 120.5(a), 120.6(c), 140.9(b),  
 150.0(m)12, 150.0(o), Table. 150.0-H, 150.1(c), Table  
 150.1-A, 150.2(b), 160.2(b), 160.2(d), Table 160.2-H,  
 160.3(b), 160.3(d), 170.2(c)4N, 180.1(a), 180.2(b)

**VENTILATION SYSTEM**, Includes the following:

Balanced ventilation ..... 120.1(c), 150.0(m), 150.0(o),  
 160.2(b)2A, 160.2(c)1, 170.2(c)3  
 Central Fan Integrated (CFI) ventilation system .....  
 150.0(o), 150.1(c)10, 160.2(b)2A, 160.2(b)2C,  
 160.3(d)2, 170.2(c)3, Table 170.2-K  
 Energy Recovery Ventilation (ERV) ..... 120.1(c)  
 150.0(m), 150.0(o), 160.2(b)2B, 160.2(c), 170.2(c)3  
 Exhaust ventilation ..... 120.1(c)4, 120.1(d), 150.0(o),  
 160.2(b), 160.2(c)4  
 Heat Recovery Ventilation (HRV)... 120.1(c), 150.0(o),  
 160.2(b)1, 160.2(b)2B, 160.3(d)2, 170.2(c)3

**VENTS** ..... 110.10(b)3, 120.4(a), 120.7(a)3, 120.8(h),  
 150.0(d), 150.0(m), 150.1(c)1, 160.1(a), 160.1(c),  
 160.3(b), 160.3(c), 180.2(b)2

**VERTICAL PLANE** ..... 110.10(b)3

**VERTICAL PUMP** ..... 110.3(c)4

**VISUAL INSPECTION** ..... 140.3(a)9, 141.0(b)2D,  
 150.0(m)1, 150.0(o), 150.2(b)1D, 150.2(b)1E, 160.2(b)2,  
 160.3(b)5, 180.2(b)2

**VIVARIUM SPACE** ..... 140.4(o)

**VOLTAGE DROP** ..... 130.5(c), 141.0(b)2P, Q, R,  
 160.6(c), 180.2(b)4

**VOLT-AMPERE (VA)** ..... 110.9(c), 130.0(c)6, 160.5(b)1

**VOLUMETRIC CAPACITY** ..... 150.0(m)7, 160.3(b)5

**W**

**W/CFM** ..... 140.4(c), Table 140.4-A, 140.4(p), 150.0(m)13,  
 150.1(c)10, 160.2(b)2, 160.3(b)5L, 170.2(c)3, Table 170.2-  
 B, Table 170.2-C, Table 170.2-K

**WALK IN CLOSET** ..... 150.0(k)2, 160.5(a)2

**WALK IN COOLER** ..... 120.6(a), 120.6(b), 120.6(b)3,  
 140.6(a), 170.2(d)

**WALK IN FREEZER** ..... 120.6(a), 120.6(b)3, 140.6(a)3J, K, L

**WALL**

Assembly ..... 120.7(b), 141.0(b)1B, 150.1(c)1,  
 160.1(b), 180.2(a)2  
 Box dimmer ..... 110.9(b)3  
 Extension ..... 180.1(a)1  
 Insulation.... 120.7(b), 141.0(b)1B, 150.0(c), 150.0(d),  
 150.1(c)1, Table 150.2-D, 160.1(b), 170.2(a)2,  
 180.2(a)  
 -Mounted controls..... 150.0(k)2, 160.5(a)2

**WARM-AIR FURNACES AND COMBINATION WARM-AIR  
 FURNACES/AIR-CONDITIONING UNITS, WARM-AIR DUCT  
 FURNACES, AND UNIT HEATERS** ..... Table 110.2-I

**WARM-UP LOADS** ..... 140.4(b)12, 170.2(c)2

**WATER**

Absorption rate ..... 110.8(g)1, 150.0(f)  
 Boilers ..... 140.4(k)8  
 Circulation ..... 110.4(b), 140.4(k)5, 170.2(c)4I  
 Cooling system ..... 140.4(e)1  
 Economizer .. 140.4(e)1, 140.4(e)3, 140.9(a), 141.1(b),  
 170.2(c)4C  
 Flow ..... 110.2(a), 110.10(b), 140.4(k)6, 170.2(c)  
 Heater ..... 110.3(c)3, 110.3(c)5, 110.3(c)6, 110.8(d)2,  
 120.3(a), 140.5(a), 140.5(c), 150.0(n), 150.1(c),  
 150.2(a)1D, 150.2(b), 160.4(a), 160.4(d), 170.2(d),  
 180.1(a)3  
 Heating ..... 110.3(b), 110.3(c)4, 120.8(c), 140.1(a),  
 140.1(b), 141.0(b)3, Table 150.1-A  
 Heating system .... 110.3(a), 110.3(a)1, 110.3(c), Table  
 120.3-A, 120.8(c),  
 140.5, 141.0(a)1, 141.0(a)2, Table 141.0-E,  
 141.0(b)2,  
 141.0(b)2M, N, O, 150.0(n), 150.2(b)1H, Table 150.2-  
 D  
 160.4, 170.2(d), 180.2(b)1, 180.2(b)3  
 Loop ..... 140.4(h), 140.4(k)7, 170.2(c)4I  
 Penetration..... 110.8(h)  
 Piping ..... 120.3(b), 150.0(j), 160.3(c)1, 160.3(c),  
 160.4(f)2  
 Pump ..... 140.4(h), 140.4(k), 170.2(c)4I  
 Quality ..... 110.2(e), 140.4(j)  
 Resistant ..... 120.4(b), 150.0(m)3, 160.3(b)5C  
 Retardant..... 120.3(b), 120.4(f),  
 150.0(m)9, 160.3(b), 160.3(c), 160.4(f)2  
 Storage tank ..... 110.3(c), 110.8(d)2  
 Vapor permeance ..... 110.8(g)1, 150.0(f)  
 -Air temperature..... 110.8(d)2

-Cooled air conditioner .....140.4(k)5, 170.2(c)4  
 -Cooled chiller ..... 110.2(a), 120.5(a)16, 140.4(j),  
 140.4(k)6, 160.3(d)1  
 -Cooled fluid cooler ..... 120.6(b)1  
 -To water heat exchanger..... 140.4(e)3  
**WATER CHILLING PACKAGES – MINIMUM EFFICIENCY REQUIREMENTS**..... Table 110.2-D  
**WDMA** ..... 110.6(a)1  
**WEATHER**.....110.4(a), 110.4(b), 110.8(c), 120.3(b), 120.4(b), 120.4(f), 150.0(m), Table 150.0-D, Table 150.1-A, Table 160.2-A, 160.3(b)G-L, 160.3(c)1, 160.4(f)2, 170.0  
**WEATHERSTRIPPING** ..... 110.6(b), 110.7  
**WEIGH-IN CHARGING**..... 150.1(c)7, 170.2(c)3, 180.3(b)  
**WEIGHTED AVERAGE U-FACTOR** ..... 120.7(a), 120.7(b), 120.7(c), 141.0(b)1B, 141.0(b)1C, 150.0(a), 150.0(q), 150.1(c)8, 160.1(a), 160.1(b), 160.1(c), 160.1(e), 160.2(a), 160.2(b), 160.2(c), 160.2(e), 170.2(a)2, 3, 180.2(a)  
**WET BULB** ..... 120.6(a)4, 140.4(b)3, 140.4(b)7, 140.4(e)1, 140.4(e)2, 140.4(h), 150.0(h), 160.3(b)2, 170.2(c)2  
**WET INSULATION SYSTEM** ..... 110.8(h)  
**WHITEBOARD** ..... 140.6(b)4  
 Whole  
 Building .....150.2(c), 180.4  
 Building air leakage.....141.0(b)2P, Q, R  
 House fan (WHF)..... 110.10(b)1A, 110.10(b)1B, 150.1(b)3, 150.1(c)12, 170.1(d)2  
 Dwelling Unit .....150.0(o), 150.2(b)1M, 160.2(b)2A, 160.3(d)2, 180.1(a)2, 180.1(b), 180.2(b)5  
**WHOLESALE SHOWROOM AREAS** ..... 130.1(a), 140.6(d)  
**WILDLAND-URBAN INTERFACE FIRE AREA** .... 110.10(b)1A  
**WIND** ..... 110.8(g)2, 120.3(b), 120.4(f), 120.7(a)C3, 150.0(m)9, 160.1(a)2, 160.3(b)5I, 160.3(c)1C, 2G, Table 160.4-A,  
**WIND DIRECTION** .....140.9(c)3  
**WIND SPEED** .....140.9(c)3  
**WIND VELOCITY**..... 110.8(i)3  
**WINTER HUMIDIFICATION** ..... 140.4(b)2, 170.2(c)2B  
**WIRING** ..... 110.9(c), 130.0(c)1B, 130.0(c)6, 130.2(b), 141.0(b)2I, 141.0(b)2M, 150.0(k)1E, 150.0(t-v), 150.2(b)1J, 160.5(a)1E, 160.5(b)1F, 160.5(c)1, 160.9(a-c), 180.2(b)1B, 180.2(b)4B  
**WOOD**  
 Framed.... 120.7(a)2, 120.7(b)5, 120.7(b)7, 140.3(a)1, 141.0(b)1B, 150.0(c), 150.0(d), 150.2(a)1A, 150.2(a)1B, 160.1(a), 160.1(b), 160.1(c), Table 170.2-A, 180.1(a)1, 180.2(a)2C  
 Framing.....150.0(a), 150.1(c)1, 160.1(a)1, 170.2(a)5

Heater/stove .....150.0(m)1, 160.3(b)5  
 Stove..... 110.2(c)  
**WORKSTATION**.....130.5(d)2, 140.6(a)2I, 160.6(d)2, 170.2(e)2B  
**WRITTEN CONFIRMATION** ..... 110.0(b)

## Z

**ZONAL CONTROL**..... 150.0(m)13, 160.2(c)6, 160.3(a)2, 160.3(b)5  
**ZONE CONTROLS** ..... 120.2(e)3, 120.5(a)18, 140.4(d), 160.3(a)2D, 160.3(d)1R, 170.2(c)4B  
**ZONE TERMINAL UNIT** ..... 120.5(a)12, 160.3(d)1L  
**ZONING DAMPER** ..... 150.0(m)13, 150.1(c)7, 150.2(b)1F, 160.3(b)5L, 170.2(c)3, 180.2(b)2