



# TOWN OF WINDSOR LOCKS

## Building Department

55 Church Street Windsor Locks, CT 06096

## SIZING OF HEATING AND COOLING EQUIPMENT

**M1401.3 Sizing** - Heating and cooling *equipment shall* be sized in accordance with ACCA Manual S based on building loads calculated in accordance with ACCA Manual J or other *approved* heating and cooling calculation methodologies.

### ACCA APPROVED SOFTWARE:

Wrightsoft Right – J8  
Elite RHVAC  
Adtek Acculoads  
Carmelsoft HVAC Resload – J  
Avenir MJ8 Editions of HeatCAD and Loop CAD  
Cool Calc Manual J

### CONNECTICUT DESIGN CRITERIA FOR WINDSOR LOCKS:

(per ACCA table 1A)	Outdoor Design	Indoor Design 2021 IECC R302.1
Winter Heating	99% dB 7°F	72°F
Summer Cooling	1% dB 88°F	75°F
Cooling	1% dB 71°F	

Manual S Sizing equipment to be 95% to 120% of the load.

2021 IECC R403.2 Hot water boiler temperature reset (Exempt if a tankless coiler is used)

R403.3.5 Duct Testing Required

R403.4 Mechanical System piping insulation Required R-3

<http://www.acca.org/standards/approved-software>

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