

Project Name:			
Project Address:		Date:	
HVAC System Designer of Record:		Telephone:	
Contact Person:		Telephone:	
City:	Climate Zone:		
Zip:	1% Summer DB Temp:	1% Summer WB Temp:	99.6% Winter Temp:

Mandatory Equipment Efficiency Worksheet (§ 6.4.1.1)

System Tag	Equipment Type (Tables 6.8.1A through G)	Size Category (Tables 6.8.1A through G)	Sub-Category or Rating Condition (Tables 6.8.1A through G)	Units of Efficiency (Tables 6.8.1A through G)	Minimum Efficiency (Tables 6.8.1A through G)		
					Rated	≥	Required
						≥	
						≥	
						≥	
						≥	
						≥	
						≥	
						≥	

Mandatory Non-Standard Centrifugal Chiller Worksheet (§ 6.4.1.1)

System Tag	Leaving CHW Temperature (°F)	Entering CW Temperature (°F)	Condenser Flow Rate (gpm/ton)	Size Category (Tables 6.8.1H through J)	Minimum Efficiency (Tables 6.8.1H through J)		
					Rated	≥	Required
						≥	
						≥	
						≥	
						≥	

General Mandatory Requirements

- Load calculations are provided for selection of all equipment and systems (§ 6.4.2).
- Stair vents, elevator shaft vents, gravity hoods, gravity vents and gravity ventilations are provided with motorized dampers.
 - Exception: Gravity dampers are used since the building is less than 3 stories or in climate zones 1–3.
 - Exception: No vents are required as these systems ventilate unconditioned zones.

- Piping insulation meets or exceeds the requirements of the Standard (§ 6.4.4.1.3).
- Construction documents require record drawings (§ 6.7.2.1), manuals (§ 6.7.2.2), system balancing (§ 6.7.2.3) and system commissioning (§ 6.7.2.4).

Special Mandatory Requirements

- Freeze protection or snow/ice melting systems (if any) have controls to prevent operation in warm weather (§ 6.4.3.7).
- Independent perimeter heating systems (if any) comply with the control requirements of § 6.4.3.1.1 and § 6.4.3.2.
- Independent heating and cooling thermostatic controls (if any) are interlocked to prevent crossover of set points (§ 6.4.3.2).



Project Name:	
Contact Person:	Telephone:

Systems Worksheet (§ 6.4)

System Tag					
Supply CFM					
Supply ESP (in. w.c.)					
Fan System HP					
OA CFM (i.e. Outdoor Air CFM)					
Automatic Shutdown (§ 6.4.3.2.1)					
Deadband (§ 6.4.3.1.2)					
Setback Controls (§ 6.4.3.2.2)					
Setup Controls (§ 6.4.3.2.2)					
Optimum Start (§ 6.4.3.1.3)					
Zone Isolation (§ 6.4.3.1.4)					
Shutoff Dampers (§ 6.4.3.3.3)					
Heat Pump Aux Heat (§ 6.4.3.4)					
Humidifier Preheat (§ 6.4.3.5)					
Humidification/Dehumidification Deadband (§ 6.4.3.6)					
Ventilation Control (§ 6.4.3.8)					
Duct/Plenum Insulation (§ 6.4.4.2.1)					
Duct Sealing Levels (§ 6.4.4.2.1) Supply/Return					
Duct Leakage Test (§ 6.4.4.2.2)					

In the table above, enter the appropriate codes from this list:

Shutdown

- C1 Complying nonresidential time switch with override
- C2 Complying residential time switch with override
- N1 N/A continuous operation
- N2 N/A ≤15 kbtu/h or ≤3/4 hp
- N3 N/A hotel/motel guestroom

Dead Band

- C1 Dual setpoint control
- C2 Manual change over control
- N1 N/A special occupancy (requires approval)
- N2 N/A heating or cooling only

Setback Controls

- C1 Setback provided (down to 55F)
- N1 N/A continuous operation
- N2 N/A ≤15 kbtu/h or ≤3/4 hp
- N3 N/A 99.6% Win DB>40F
- N4 N/A radiant heating
- N5 N/A no heating

Setup Controls

- C1 Setup provided (up to 90F)
- N1 N/A continuous operation
- N2 N/A ≤15 kbtu/h or ≤3/4 hp
- N3 N/A 1% Sum DB≤100F
- N4 N/A no cooling

Optimum Start

- C1 Optimum start provided
- N1 N/A continuous operation
- N2 N/A ≤15 kbtu/h or ≤3/4 hp
- N3 N/A supply≤10,000 cfm

Shutoff Dampers

- C1 Motorized shutoff dampers on OA and Exh
- C2 Gravity shutoff dampers on OA and Exh
- N1 N/A continuous operation
- N2 N/A ≤15 kbtu/h or ≤3/4 hp
- N3 N/A OA/EA ≤300 cfm

Zone Isolation

- C1 Isolation zones provided
- N1 N/A continuous operation
- N2 N/A ≤15 kbtu/h or ≤3/4 hp
- N3 N/A all zones on same schedule
- N4 N/A OA/EA ≤5,000 cfm

Heat Pump Aux Heat

- C1 Complying controls provided
- N1 N/A system is not a heat pump
- N2 N/A auxiliary is not electric or is not provided
- N3 N/A heat pump covered by NAECA

Humidifier Preheat

- C1 Complying controls provided
- N1 N/A no humidifier

Humidification/Dehumidification Dead Band

- C1 Complying controls provided
- N1 N/A no humidification and/or dehumidification

Duct/Plenum Insulation

- C1 Complying insulation provided
- N1 N/A all ducts located in conditioned space

Duct Sealing

- Enter highest seal level (A, B or C) for supply and return

Duct Leakage Test

- Y Ducts will be tested for leakage
- N Ducts will not be tested for leakage

