

## **MISC EQUIPMENT SCHEDULE REQUIREMENTS**

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*The following is a listing of minimum schedule information to include for select equipment.*

### **All Equipment:**

Mark/Tag  
System Served Name/Description  
Equipment Location (room number, area, etc.)

### **Expansion tanks:**

Mark/Tag  
System Name/Description  
Tank Location (room number) and elevation within building  
Fluid Type (water or % propylene glycol)  
Calculated System Volume  
As Built System Volume (leave blank so can be filled in during as builds)  
Design System Volume (calculated + 40% margin)  
System Design Cold Temperature & System Design Hot Temperature

- o Chilled water system: 40 deg F, 90 deg F
- o Heating water systems: 55 deg F, 190 deg F (even if designed for 140 deg F operating temperature)

Initial Fill Pressure (need 15 psig at building highest elevation air bleed point plus static elevation difference, with pumps off and system at room temperature (or cold in case for chilled water system)  
Final Fill

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- x FluidOperatingTemperature
- x PumpType(endsuction,inline, vertical, etc.)
- x PumpDesignGPM& Head
- x PumpSizing(2x100%,2x60%,3x50%,etc.)
- x OperatingPointas%of Runout(if pump will often will run at a backeddown condition (VFD turned down), is typically good to select operating point to the right of the efficiency sweet spot)
- x ShutoffHead
- x ImpellerCutDiameter
- x Min & Max Impeller Diameters(good to select pump to no more than 90% of max diameter in case need to put in larger diameter down the road)
- x PumpRPM
- x PumpEfficiency
- x PumpManufacturer& Model No.
- x Motor Information (HP, voltage/phase)
- x SuctionDiffuser(if part of system) model no. & size, and max pressure drop
- x Weight
- x Remarks:
  - o 3 Phase motors VFD driven to be NEMA MG1 Part 31.4.4.2 (1,600V), and to have Helwig (no equals) shaft grounding

### Split Systems:

- x Mark/tag
- x System name/description
- x Indoor & Outdoor locations(room number, north roof, south exposure, etc.)

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### FanCoils:

- x Mark/Tag
- x SystemServedName/Description
- x EquipmentLocation(room number, area, etc.)
- x Type(wall mounted, ceiling mounted, discharge direction, etc.)
- x Airflow CFM
- x ExternalStaticPressure(ESP)
- x Capacities

