

Water Treatment for Humidification Sizing and Design Questionnaire

Project Name: _____

Project Location: _____

Engineer/Rep/Contractor/Rep Name: _____

Please attach any available water testing reports

System Information

Type of humidifier being installed: _____

- Electric Resistive (uses electric current to boil water)
- Isothermal (contains gas burner/electric element/heat exchanger)
- Adiabatic (wetted pad, ultrasonic, centrifugal, or high-pressure sprayhead)

List manufacturer, model, and quantity: _____

Humidifier capacity: (list total lbs. steam/hour produced OR gallons per hours of feedwater required.

Include fill rate GPM and feed line size, if known): _____

Will humidifier utilize a periodic purge and refill cycle? Yes No

If yes, how often? _____

If yes, how many gallons of water to refill? _____

City or well water? City Well

If city water, what type of disinfectant?

- Chlorine
- Chloramines
- Other (please describe): _____

Incoming (raw) water hardness level (grains per gallon, PPM, or mg/L): _____

Iron level (PPM or mg/L): _____

TDS (Total Dissolved Solids, PPM or mg/L): _____

Silica level (PPM or mg/L): _____

Chloride level (PPM or mg/L): _____

Incoming water pressure to treatment system (PSI): _____

Incoming cold water temperature (list coldest possible): _____

Is a hot water source available? Yes No

Please list (or attach) any water quality requirements from humidifier manufacturer (max conductivity or TDS, specific contaminant limits, etc.): _____

Minimum PSI outlet pressure required from treatment system: _____

Do you need an ASHRAE 170-compliant recirculation loop and disinfection system? Yes No

Vertical distance (ft): _____ Horizontal distance (ft): _____

Do you require a packaged skid system (pre-piped, pre-wired, pre-plumbed, delivered to jobsite)?

Yes No

If yes, how wide is the mechanical room door/corridor? _____

If yes, how tall is the mechanical room ceiling? _____

If yes, which system controller option do you desire?*

Option 1: touchscreen PLC/HMI, BMS integration, single-point power

Option 2: basic controller, digital alarm outputs, single point power

*Applies to RO/DI skid systems only (not to softening systems)

Do you require Building Automation System (BAS) integration? Yes No

If yes, which protocol? BACnet IP BACnet MS/TP MODbus TCP MODbus RTU

Other: _____

Describe space available for treatment equipment: _____

Available power supply:

Voltage: _____ Phase: _____

Is there a budget cost you had planned for on this equipment? _____

Do you want a service agreement for this equipment? Yes No

If yes, what is the desired contract term? 6 mos 12 mos 18 mos 24 mos

If the equipment will be used to improve an existing application, please list any pre-treatment equipment currently installed (eg. water softeners, carbon filters, sediment filters, etc.): _____

Other comments or requests:

Submitting this Questionnaire

Thank you for working with Water Control. We value your business. Please fax, email, or mail this questionnaire to us (or your local representative) for processing and system selection.

Email: engineering@watercontrolinc.com