Elge Technologies LLC

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SEQUENCE OF OPERATION/START UP
ELGE MODULAR DOMESTIC HOT WATER HEATERS

Open all water valves

- HX supply
- HX return
- Recirculation line
- Mixing valves

Power up the recirculation pump

- Confirm that the flow is in the correct direction
- (Feeding Heat Exchanger and Mixing valve).

Confirm the HW mixing valve is in the lowest temperature setting.

Once water flow is established, open the steam valve slowly.

- Allow the system to pressurize to the proper PSI.
- Make adjustments to the actuator as needed to maintain the desired outlet temperature.
- 5-10 psi is the normal operating range for steam-water Elge systems.

Increase the HW mixing valve temperature:

- 120 degrees Fahrenheit is the standard setting for domestic hot water output.

Observe the operation of the system

- Record temperature returning to the HX
- Record temperature leaving the HX
- Record the temperature after the mixing valve.

This should be done continuously for the first hour of operation.
The system should be checked for proper operation and temperature during peak load. Adjust as needed.
Domestic Hot water temperature leaving the mixing valve should not exceed 120 Degrees.

The system should be checked regularly throughout the day, and temperatures recorded in a logbook specific to that particular Heat Exchanger.

If the system temperature rises above 120 degrees and is not adjustable down to the working range, the Heat Exchanger should be taken off line and isolated from the building system. A qualified technician should be called to troubleshoot the system.

BALANCING VALVES (IF APPLICABLE)

Using the Capacity ELGE Shell & Coil HX sheet for this project determine the DHW flow in GPM. Divide GPM by the number of heat exchangers in the MAC System, Adjust the balancing valves on the outlet side of each heat exchanger by this number. ie MAC 3 with total capacity of 75 GPM (75/ 3 = 25 GPM)