Initial Startup Procedure for the Variable Moisture Steam™ Shower Supply System

The following outlined procedure is for a new installation of the Variable Moisture Steam (VMS) shower supply system.

Follow your company’s safety procedures whenever working on Kadant Johnson products. Read all of the instructions before proceeding with the installation or repair.

1. Close all ball valves on the shower – the 3/4” manual ball valve from the steam header and the 3/4” manual ball valve from the high-pressure condensate return.

2. Close the ball valve directly before the shower to completely stop flow from the VMS shower supply system.

3. Open the 1/2” ball valve at the entrance to the silver MK 35/12 trap on the 2” drip leg.

4. Check the electrical operation of motorized ball valves. DO NOT turn the stems on the motorized ball valves with a wrench; this will permanently damage the valves. First, check the water motorized ball valve by turning the switch to the Closed position. The flats on the stem should be perpendicular to the potential flow of water and the blue light should turn off. Next, turn the electrical switch to the Open position. The flats on the stem should be parallel to the direction of flow of water and the blue light should turn on.

5. Repeat step four for the steam motorized ball valve. The green light will turn on and off for the steam motorized ball valve.

6. Close the water metering globe valve and ensure the calibration marking on the side reads zero indicating fully closed.

7. Open the water metering valve to 0.4 of one complete revolution as indicated by the disk on the valve stem.

8. Once both motorized ball valves are operating properly in the Open/Closed positions, place both electrical switches in the Closed position.

9. Open the manual ball valve on the water side of the VMS shower supply system.

10. Open the manual ball valve on the steam side of the VMS shower supply system.

11. Open the 1/4” steel globe valve drain line 1/2 turn open.

12. Turn the steam motorized ball valve electrical switch to the Open position. The green light will turn on.

13. Turn the water motorized ball valve electrical switch to the Open position. The blue light will turn on.

14. Both lights on the electrical panel should be lit and "wet" steam should be flowing out the 1/4” drain line into the trench.

15. The electrical switches may now be turned to the Auto position.

16. Open the ball valve to the entrance of the shower.

17. The shower is now ready to be assessed while the single facer is operating.

18. The steam light should turn on at 200 feet per minute, machine speed. Approximately three seconds after the steam (green) light turns on, the water (blue) light will turn on.

19. The globe valve on the operator side of the corrugator may be used to regulate the flow of the "wet" steam to the shower.

20. The steam exiting the shower supply and all drains will be "wetter" compared to dry steam. For this reason, it may appear there is less steam flowing as compared to other steam showers. This is normal.

21. Different mediums (i.e., weights) may require different settings on the water metering valve. To control the moisture content in the steam, the calibrated water metering valve may be increased or decreased. This should be done in increments of one-half of each number on the scale.