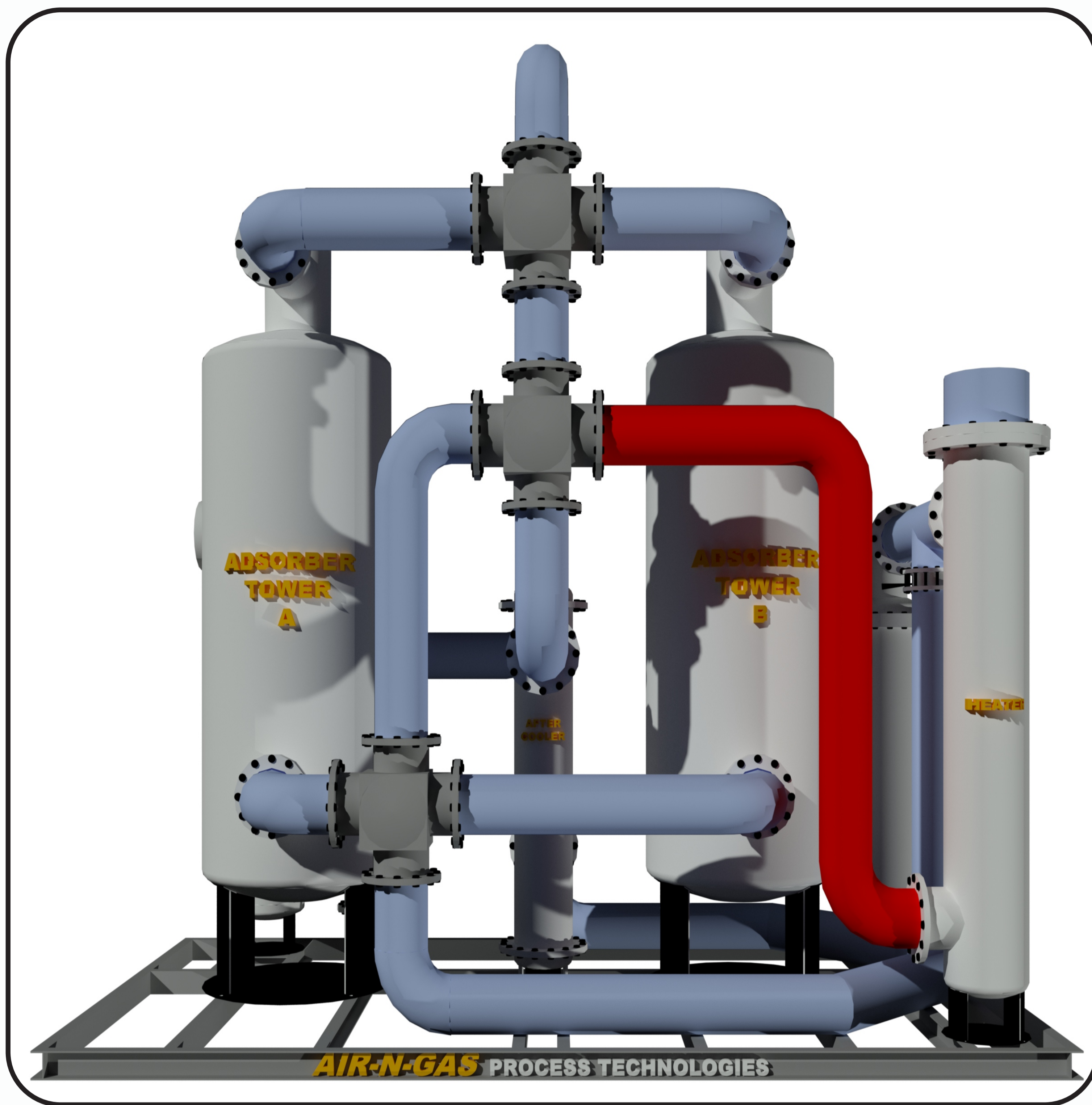
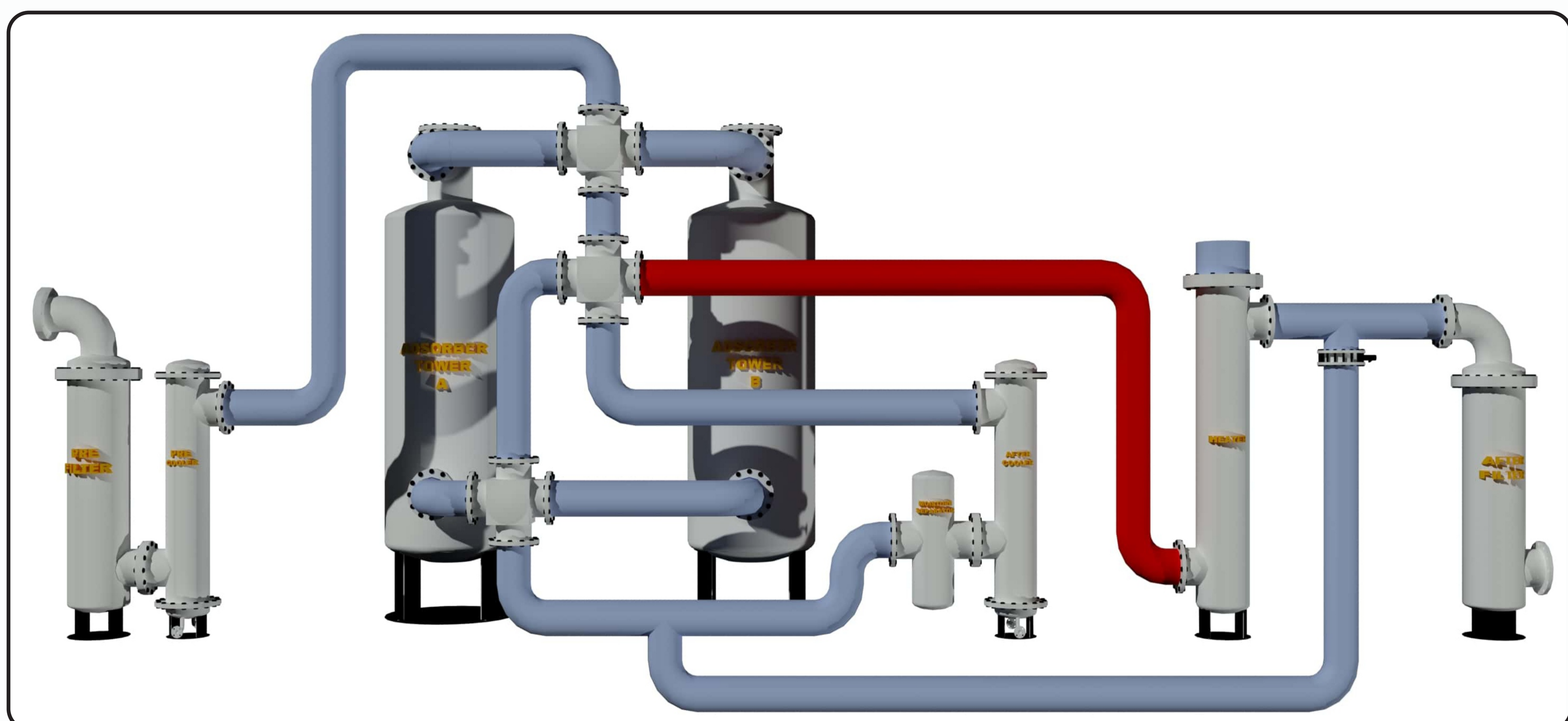


SPLIT FLOW NO PURGE LOSS AIR DRYER

3D VIEW OF SPLIT FLOW NO PURGE LOSS AIR DRYER



PROCESS SCHEME OF SFNPL AIR DRYER



This is basically modified HOC where the incoming air is not hot as in case of lubricated compressed air. To save on purge loss, here part of wet air is circulated through a heater thereby increasing its moisture carrying capacity, which is used for regeneration. While 30-40% of wet air is circulated through a heater thereby increasing its temperature which then takes out the moisture from desiccant bed and then it is cooled in a cooler where moisture is condensed and drained out in the moisture separator. This air is sent back to the distributor where it mixed with incoming air and distributed again. Now the whole air goes for drying.

SOME SALIENT FEATURES OF SPLIT FLOW NO PURGE LOSS AIR DRYER

1. Advanced Version of Desiccant type air drying
2. Minimum energy loss
3. No purge loss
4. Used where inlet air temperature is not high
5. Adp of (-)40 Deg. C can be easily achieved
6. Conceptualization of 3 valve system