CLAIMS:

1. A gas treatment system for transferring liquefied gas from a storage tank of a bunkering ship to a C-type fuel tank provided in a gas propulsion ship, the gas treatment system, comprising:

a bunkering line configured to supply the liquefied gas of the storage tank to the fuel tank;

a bunkering management part configured to control an internal pressure of the storage tank by liquefying evaporation gas of the storage tank, using a refrigerant, and returning the evaporation gas; and

an evaporation gas return line configured to transfer evaporation gas generated in the fuel tank to the bunkering ship in bunkering through the bunkering line,

wherein the bunkering management part comprises:

a reliquefaction apparatus configured to liquefy the evaporation gas of the storage tank; and

a pressure control line configured to form a circulation flow path between the storage tank and the reliquefaction apparatus and lower the internal pressure of the storage tank by liquefying the evaporation gas of the storage tank in the reliquefaction apparatus and returning the evaporation gas to the storage tank,

wherein the evaporation gas return line transfers the evaporation gas generated in the fuel tank to the reliquefaction apparatus, or transfers the evaporation gas generated in the fuel tank to the storage tank by transferring the evaporation gas generated in the fuel tank to a lower stream of the reliquefaction apparatus on the pressure control line and detouring the reliquefaction apparatus, and

wherein the bunkering management part lowers the internal pressure of the storage tank to a predetermined pressure using the reliquefaction apparatus before the bunkering and allows the evaporation gas to be transferred from the gas propulsion ship to the bunkering ship through the evaporation gas return

line without compression performed by a separate compressor by maintaining the internal pressure of the storage tank to be less than an internal pressure of the fuel tank in the bunkering by controlling flow of the evaporation gas generated in the fuel tank through the reliquefaction apparatus and the evaporation gas return line.

2. The gas treatment system of claim 1, wherein the storage tank is a membrane-type or C-type tank, and

wherein the predetermined pressure is 0.04 barG or 0.2 barG.

3. The gas treatment system of claim 1, wherein the bunkering management part maintains the internal pressure of the storage tank to be less than that of the fuel tank, by reliquefying the evaporation gas transferred through the evaporation gas return line in the bunkering and returning the reliquefied evaporation gas to the storage tank.

4. The gas treatment system of claim 1, wherein, when the internal pressure of the fuel tank before the bunkering is a first pressure, and the bunkering is performed on the fuel tank of which the internal pressure drops due to introduction of the liquefied gas in the bunkering, the bunkering management part allows internal pressures of the storage tank before the bunkering and in the bunkering to be equal to or lower than that of the fuel tank when the bunkering of the fuel tank is completed.

5. The gas treatment system of claim 4, wherein, when the internal pressure of the fuel tank is a second pressure, and the bunkering is performed on the fuel tank of which the internal pressure rises due to generation of the evaporation gas in the bunkering, the bunkering management part allows internal pressures of the storage tank before the bunkering and in the bunkering to be equal to or lower than that of the fuel tank when the bunkering of the fuel tank is started.

6. The gas treatment system of claim 5, wherein the first pressure is a pressure which is equal to the predetermined pressure or is higher by 0.05 barG to 0.1 barG than the predetermined pressure, and

the second pressure is a pressure which is lower by 0.05 barG to 0.1 barG than the predetermined pressure.

7. The gas treatment system of claim 5, wherein the first pressure is 0.5 barG to 8 barG, and

the second pressure is 0.5 barG or lower.

8. A bunkering ship comprising the gas treatment system of any one of claims 1 to 7.