Claims

1. A refrigerated freight container (300) for shipping agricultural commodities, the refrigerated freight container comprising:

   a generator (304) that generates gas pressure to balance vacuum pressure that accumulates over time in the refrigerated freight container and

   a carbon dioxide scrubber (120), wherein: the carbon dioxide scrubber (120) is configured to automatically activate after sensing carbon dioxide levels in the refrigerated freight container (300) reaching a maximum allowable set point CO2H for storing therein the agricultural commoditie s and to deactivate when carbon dioxide is at or below a low set point CO2L ; and

   the generator (304) is configured to activate by activation of the carbon dioxide scrubber (120) to generate an inert gas to balance vacuum pressure created in the refrigerated freight container (300) by operation of the carbon dioxide scrubber (120).

2. The refrigerated freight container of claim 1 wherein the generator (304) generates nitrogen gas.

3. A method for shipping agricultural commodities in a refrigerated freight container (300),

   wherein the refrigerated freight container (300) comprisesa generator and a carbon dioxide scrubber (120) and the method comprises:

   automatically activating the carbon dioxide scrubber (120) after sensing carbon dioxide levels in the refrigerated freight container (300) reaching a maximum allowable set point CO2H for storing therein the agricultural commodities;

   activating the generator (304) by activation of the carbon dioxide scrubber (120), thereby generating an inert gas to generate gas pressure to balance vacuum pressure that accumulates over time in the refrigerated freight container (300) due to operation of the carbon dioxide scrubber (120); and

   deactivating the carbon dioxide scrubber (120) when carbon dioxide is at or below a low set point CO2L.

4. The method of claim 3 wherein the generator (304) generates nitrogen gas.