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(54) Title: ICON FRESH AIR PRE-TREATMENT SYSTEM

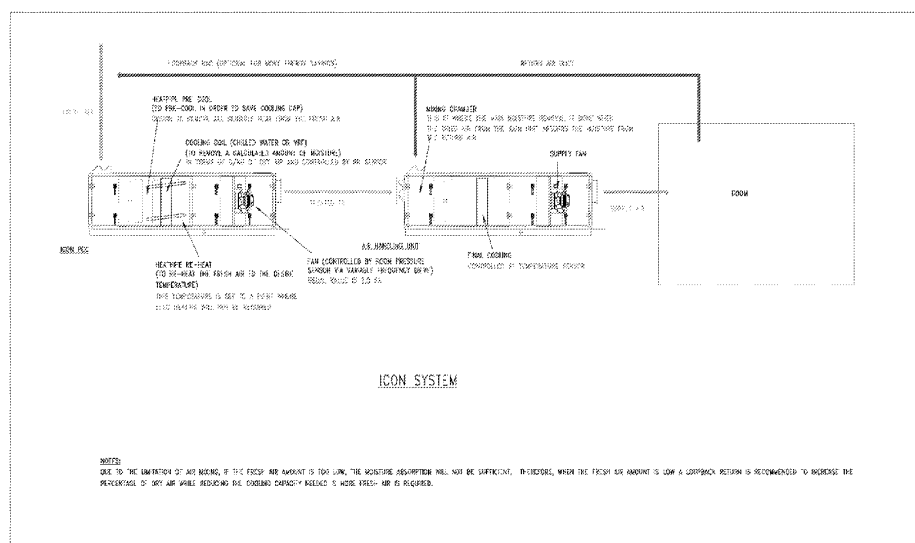


FIGURE 5: Icon Fresh Air Pre-treatment System

(57) Abstract: The present invention introduces a novel concept for controlling humidity via a fresh air pre-treatment system. Traditional methods for humidity control demand significant electricity leading to increase energy costs and potentially exceeding the available electricity capacity of existing buildings. This invention addresses these challenges by using an ICON PCC unit to remove moisture from the fresh air intake, thereby preventing moisture from entering the building. The principle is simple: "If no moisture enters the building, there is no humidity problem." The present invention uniquely achieves this without requiring additional electricity or cooling capacity. As a result, exiting building can now permanently resolve moisture and fungus issues. Furthermore, conditioned and clean rooms in manufacturing sectors will no longer need heaters, leading to substantial energy savings. This innovation aligns with the 2050 Net Zero Emissions target, offering an energy-efficient solution for humidity control.

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