



SCS INTELLIVENT FRESH AIR SYSTEM

Supplying fresh air into a CA store is vital in every sense of the word. Historically, some SCS installations would use the CO₂ Scrubber's blowers and a dedicated valve to cheat fresh air through the scrubber lines into the room. The scrubber's built-in touch screen allows the operator to manually set timers for the scrubber's blowers. However, this has some drawbacks. When in this mode, the scrubber is not available for its primary function: scrubbing. The manual timers require a massive amount of attention to achieve a precise result. There is also the energy cost of running these large blowers, as well as the wear-and-tear on them for such a simple task.

The SCS IntelliVent system is a small, independent blower on a variable-speed drive, which is then piped to the rooms on its own trunk line & valves along side the CA room piping, but uses the existing scrubber discharge penetration to access the room. This is all tied back to the GCS6000 sampling system, which uses hourly room samples to automatically control the IntelliVent's room valves and blower to achieve optimal room O₂ levels. Utilizing the variable speed drive, we can run the blower slowly when venting on one room, but can ramp up speed when additional rooms require venting, thus achieving greater energy efficiency.

With the GCS6000 in the system, the CO₂ Scrubber shifts to remote mode, and acts as a slave to give control to the sampling system. Room samples are now compared to user-defined CO₂ set points, which in turn dictate scrubber operation, rather than running on a timer. This way, we are able to remove CO₂, or in some varieties maintain CO₂, and still add necessary O₂, resulting in the ultimate desired CA regime.

FEATURES

- ▣ Tighter CA Control
- ▣ More Steady Oxygen Levels than Scrubber O₂ Purge
- ▣ Scrubber Becomes Backup Vent
- ▣ Use Less Energy to Raise O₂
- ▣ Increased Scrubber Capacity
- ▣ Easily CA Pressure Test
- ▣ Simple & Cost-Effective Install or Retro-Fit

KILOWATCH EMS
COMPATIBLE PRODUCT



Fresh Air Blower in CA Hallway to Piping Trapeze



IntelliVent Line (at Far Left) Ducted to Room Scrubber Discharge



Actual Room Records Comparing O₂ Level Modulation

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