



PRISM PRESSURE™



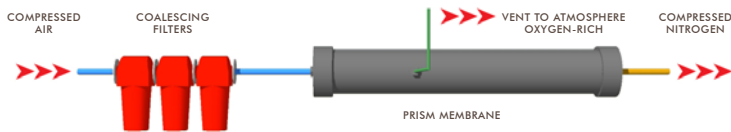
SCS Model PP-322

The importance of nitrogen gas for Controlled Atmosphere storage rooms is immeasurable. After decades of use, a nitrogen generator is common place for warehouses around the world. Oxygen is displaced by generated nitrogen to move the atmosphere to a low oxygen level, just high enough for the fruits or vegetables in the CA stores to respirate, but at a slowed rate. The new innovative design of PRISM PRESSURE™ is not only multiple PRISM® hollow fiber membranes, but more importantly the combined air source. This is the only machine in the industry that utilizes oil-free Hitachi scroll compressors. Built in an all-in-one package, they deliver extremely pure air to the separators, which insures extremely long life of the hollow fiber membranes.

HOW IT WORKS

The air that we breathe contains 78% nitrogen, 21% oxygen and 1% other gases. The PRISM® Membrane System uses this unlimited supply of raw material to produce specific purities of nitrogen.

Selective permeation is the general principle behind the membrane system. Each gas has a characteristic permeation rate that is a function of its ability to dissolve and diffuse through a membrane. This characteristic allows “fast gases” such as oxygen to be separated from “slow gases” such as nitrogen.



FEATURES

With the advantage of individual Hitachi compressors, we gain reliability by redundancy and energy savings by managing the number of compressors that run depending on the mission. For initial oxygen pulldown, the machine can run at full potential, yet when struggling with a leaky store, only a single compressor can be selected to run. Finally, yearly costs of maintaining the system are nearly non-existent since there are no oil changes or frequent coalescing filter changes. These combined features make the PRISM PRESSURE™ a great choice for your warehouse.



THOUSANDS OF MEMBRANE FIBERS ARE CONTAINED IN THE COMPACT PRISM ALPHA MEMBRANE SEPARATOR.

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STORAGE CONTROL SYSTEMS
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SPECIFICATIONS*

| MODEL | DIMENSIONS (D x L x H) | WEIGHT |
|------------|------------------------|-----------|
| SCS PP-215 | 35" x 45" x 65" | 900 lbs. |
| SCS PP-322 | 35" x 48" x 69" | 1580 lbs. |
| SCS PP-430 | 40" x 57" x 75 1/4" | 1790 lbs. |

*Subject to change. Please contact SCS for the most current information incl. flow rate, etc.

FEATURES

- ▣ 7.5HP OIL-FREE HITACHI COMPRESSORS

All Prism Pressure machines have these exclusively-licensed compressors built-in to the machine's housing.
- ▣ 7.5 or 15HP MOTORS

These motors may be implemented in any combination or quantity, each driving a pair of compressors.
- ▣ 4050P1 PRISM®/ALPHA GAS SEPARATORS
- ▣ ALL-IN-ONE DESIGN

All-in-one nitrogen generator and atmosphere controller with automatic data logging.

 - *AutoTune* automatically adjusts output purity
 - *Automatic Pulldown Mode* adjusts output purity during pulldown cycles to reduce pulldown time and energy usage.
 - *Oxygen Analyzer*: 0-25% O₂ electrochemical cell
- ▣ REDUNDANT SAMPLING SYSTEM (OPTIONAL)

Using the portable GCS250 Analyzer or separate analyzers enclosed within the electrical control panel, an independent air sample is taken from the CA stores. This sample system compares the O₂/CO₂ readings with the CO₂ Scrubber sampling system as a fail-safe backup. Also, if the CO₂ is at setpoint, the Scrubber will not run the next interval, saving energy and providing the assurance of tracking a straight history. With the trend of progressively lower room O₂ levels, coupled with the value of the commodity, having two sample systems in place operating 24/7 ensures greater protection of your investment.
- ▣ PLC-BASED TOUCH SCREEN CONTROLS

All models feature a 6" color TFT display touch-screen interface specially adapted to remain visible in low-temperature conditions.
- ▣ REMOTE ACCESS VIA ETHERNET

Remote access by Storage Control Systems, Inc. for troubleshooting and program updates when connected to a high-speed internet connection.

Storage Control Systems, Inc. was established in 1982 by Caryl A. Schaefer, father of the current owner James. C. Schaefer. SCS started out by building our very first carbon dioxide scrubbers and aluminum CA doors for a local fruit grower. Today, 27 years later, we pride ourselves as a Worldwide leader in the Controlled Atmosphere, fruit and vegetable storage industries. We have installations of our products Worldwide, including: South America, India, USA, Canada, Mexico, Australia, United Kingdom, and Europe.

In these several hundred installations around the World, we have supplied Permea Nitrogen Generators, SCS Carbon Dioxide SmartScrubbers, GCS Gas Analyzers, SCS CA Seal Doors, and all the piping and valving associated with CA stores. Our equipment is built to last with mostly US made components. Quality control is our first priority, and attended to daily. Our management team cares about each customer's needs on every job, no matter the size. Many models and sizes of equipment are available, and being the manufacturer allows us to custom build equipment to particular applications and customer needs.



ALL PRODUCTS DESIGNED & DEVELOPED IN MICHIGAN THROUGH 26 YEARS OF EXPERIENCE IN PARTNERSHIP WITH



The nature of our company is to constantly improve upon our products. This may therefore result in changes to products depicted in this brochure. Please contact SCS for the most current information.

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