

GreenVent Systems

FOR CONSTANT PRESSURE CONTROL

Solve venting challenges for
dryers, bathrooms and kitchens
in multi-story buildings.

Challenges for venting dryers, bathrooms,
and kitchens in hotels, dormitories,
institutional facilities and high rise
buildings are easy to solve with the
GreenVent System for Constant Pressure
Control. This new, simple to install system
includes the industry's number one rooftop
fan with a Vari-Green motor, controller,
pressure tap and pressure transducer.



Greenheck
GREEN

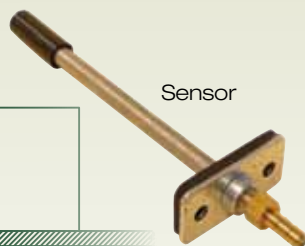
Supporting Green Building
Initiatives Worldwide

VARI GREEN GreenVent SYSTEMS



Electrically Commutated,
Controllable and Efficient

- Provides a large speed range with 80% turn down
- Will last longer than a Variable Frequency Drive



With Greenheck's GreenVent System for constant pressure control, energy consumed within the system can be significantly reduced.

This controlled system will reduce energy consumption not only by reducing the speed of the fan and the energy used by the motors, but will also reduce the amount of conditioned air that is exhausted.

Installation is easy as 1-2-3

1. Install the pressure tap in the duct
2. Connect the wires to the pre-labeled terminals in the controller
3. Start the system—it's ready to operate.

The system sensor will automatically regulate the fan speed and maintain a constant pressure in duct runs based on demand. Conditioned air is then exhausted at a fraction of a traditional system, reducing operational costs and saving energy.

Fan:

- May be used with the industry's number one most specified and installed Greenheck fan—model CUE
- Includes the Vari-Green motor—no VFD is required
- Simple curb mounting

Controls:

- Only needs ¼ inch tubing and some control wire to install
- Programmable Logic Control (PLC) precisely controls the fan speed
- No programming required. Simply adjust and walk away

Benefits:

- Easy to install in new buildings or retrofits
- High efficiency
- Less expensive than a 3-phase motor and VFD
- Increased comfort

Key Features:

- Exhaust fan has the energy efficient Vari-Green Motor
- GreenVent System maintains a more precise system pressure compared to traditional systems
- Controls can be mounted in the building or on a roof curb
- Fan speed tracks system demand and adjusts
- Supports better functionality of the dryer, bathroom and kitchen fan
- Direct drive operation means lower maintenance costs
- Fan can turn off during periods of no demand

How it works

- System utilizes fans with the Vari-Green motor, controller, pressure tap and pressure transducer
- A sensor/transducer senses the pressure in the duct and signals the information to the controls
- Controls gage the actual pressure as compared to the pre-set desired pressure
- Controls signal the Vari-Green motor in the fan to speed up or slow down to correct the pressure in the duct to the necessary level

Applications

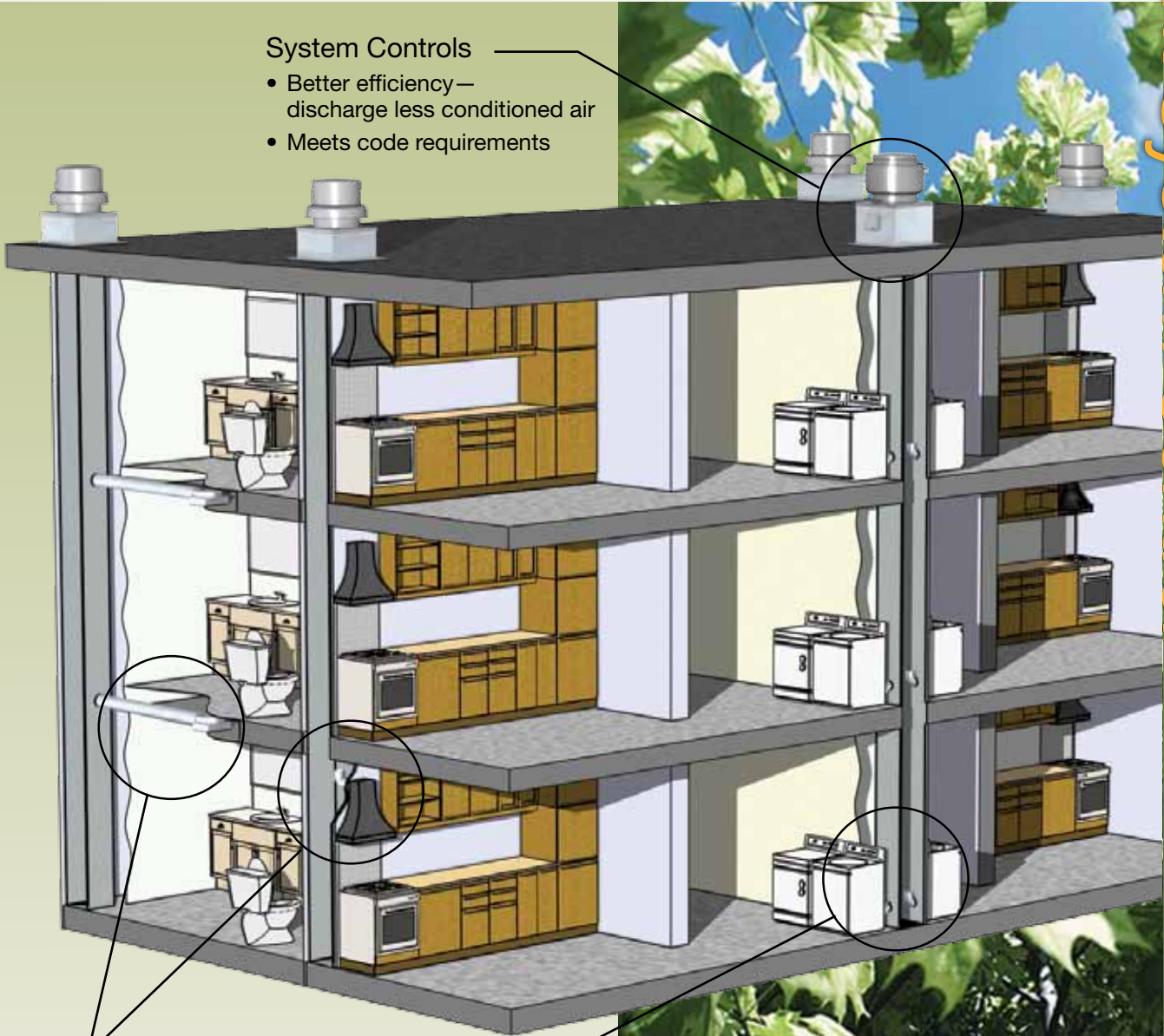
- Multi-story dryer vent systems
- Bath exhaust systems
- Kitchen exhaust systems

GreenVent Systems are available with the following fans

- CUE, G, SQ and CW.
Consult your local Greenheck Rep for available horsepower

System Controls

- Better efficiency—discharge less conditioned air
- Meets code requirements



Bath and Kitchen Exhaust

- Better exhaust
- Better odor control
- Reduces operating costs
- No recirculating kitchen hoods

Dryer Exhaust

- Booster fan required to meet code
- Better dryer efficiency
- Reduces exhausted air
- Discharges less conditioned air and reduces cost



**Greenheck
GREEN**

Supporting Green Building
Initiatives Worldwide

green – It's not just what we make.
It's where we work. How we work. Who we are.

Energy Savings



Thousands of dollars can be saved within a simple six dryer system of approximately 1,500 cfm at full load with a GreenVent System for constant pressure control. The amount of conditioned air being ventilated is efficiently reduced while the quality of the indoor air is maintained. In addition to savings realized by reducing the amount of exhausted conditioned air, hundreds of additional dollars can be saved through the operating efficiency of the fan with a Vari-Green Motor. This system can pay for itself in less than one year of operation and locations with more severe climates can achieve even larger savings. Simply install the GreenVent System in new or existing buildings and realize worry free savings year after year.

Specifications

GreenVent System for constant pressure control shall be a complete package designed to regulate fan speed based on demand in duct runs. System shall include a fan with Vari-Green Motor, Pressure Tap, Pressure Transducer, and Control box. Control box shall be pre wired and in a NEMA-3R weather tight disconnect for mounting inside or outside. Control box shall include a Programmable Logic Control (PLC) with Proportional Integral Derivative (PID) program and shall have all components pre wired to labeled terminal strips for easy wiring. System shall include a self-sealing aluminum pressure tube with 1/4-inch connection and preset pressure transducer. Fan shall be centrifugal direct drive type in upblast, downblast, or inline configuration with controllable EC Vari-Green Motor. Control system shall be GreenVent System for Constant Pressure Controls as manufactured by Greenheck Fan Corporation, Schofield, Wisconsin.

Now that's green!

for better air – specify Greenheck fans.

To learn more about the Vari-Green Motor, contact your nearby Greenheck representative or visit our web`site to view the video at greenheck.com/library.



Prepared to Support
Green Building Efforts

P.O. Box 410 | Schofield, WI 54476-0410 USA
Phone 715.359.6171 | Fax 715.355.2399
greenheck.com