

COMPUTER-DRIVEN -GATE SYSTEM

John White's article in "Fine Woodworking Magazine," July/August 2000 issue.

"The ECOGATE gate system does what I frequently neglect to do: turn on the collector and open a blast gate. At first the system seemed like a luxury, but after working with it for just a couple of weeks, I'm a convert. The Fine Woodworking shop is noticeably cleaner and because the dust collector shuts down when machines are turned off; noise, wear, tear, and power use are all reduced.

The system has three components.

(1) Vibration sensors are attached with hook-and-loop fasteners to the motor of each power tool. (2) Motor-driven blast gates replace the standard blast gates at each machine and (3) A shoebox-sized control unit ties everything together. The basic control box will handle up to eight machines, but it can be expanded to handle more.

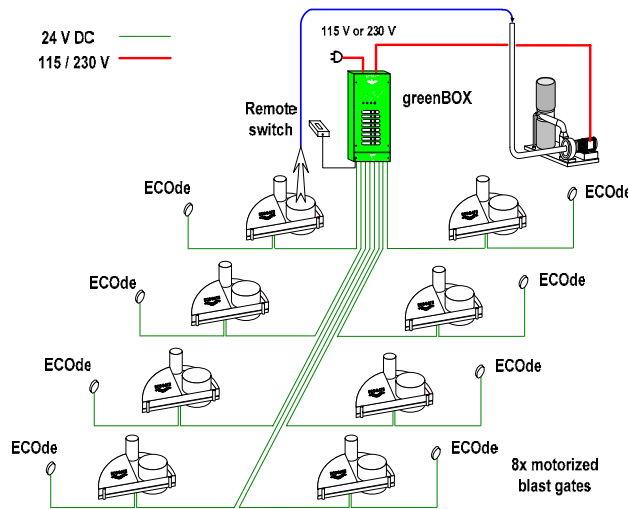
Hooking up the system is fairly simple and straightforward, with their excellent instruction manual. Each machine requires a low-voltage cable for the sensor and the blast gate. The wire is simply wrapped around the ducts.

The control unit allows you to troubleshoot the circuit to each machine. The unit can be programmed to keep one or more gates open for proper airflow through the dust collector and to delay shutting off the system to clear the ducts. A manual override switch can also be installed.

A start-up system, with four 4-in blast gates costs a little over \$500. It's not cheap, but it's a good value for commercial shop or home shops on a generous budget. For more information, visit ECOGATE on-line (www.ecogate.com) or call (888) ECOGATE (326-4283)."

-John White

Fine Woodworking July/August 2000



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FULLY AUTOMATIC DUST
COLLECTING SYSTEMS



*Improve your environment.
Protect your health.
Save electricity.*



ECOGATE Set EG001B

ECOGATE® will greatly improve your present dust collecting system – the more workstations you have, the better the system performs!

SYSTEM FUNCTION

The ECOGATE® System is completely automatic, thanks to vibration sensors and the microcomputer controller greenBOX. When the machine is turned on, an ECOde sensor signals the controller to open the appropriate gate and to turn on the dust collector. When the machine stops, the gate closes.

- System starts every time; with every single cut to protect your health (sawdust is carcinogenic).
- Vacuum is directed only to the machines in use to improve system performance.
- Noise, wear, tear, and power use are significantly reduced
- Higher work efficiency because system works fully automatically. Enjoy uninterrupted work, with no more wasted effort!

The System has several components:

1. CONTROL UNIT GREENBOX®



EG101, control unit greenBOX

2. MOTOR-DRIVEN ECOGATE®

A motorized gate is installed on each machine with sensors ECOde®. The sensors are attached by Velcro® to each workstation. ECOde sensors are delivered with each gate. These sensors read the vibration of the machinery.



EG204B motorized gate 4"

3. EXTERNAL CONTACTOR – POWER RELAY



EG400 external contactor for fan larger than 2 HP @ 230V or larger than 1 HP @ 115V

4. TOROIDAL SENSOR



EG313, optional toroidal sensor

The toroidal sensor is recommended for machinery with low vibration. Toroidal sensor reads the current to the workstation motor (one phase wire should be installed inside of toroidal coil). This sensor can be used for any size of motor, including 3-phase motors (as long as sensor hole 1/4" is large enough for phase wire). Recommended for industrial-duty installations.

5. MOTOR-DRIVEN ECOGATE®



Motorized gate 5", 6", 7", and 8"

Larger gates (9" to 16") are also available, but they are compatible with greenBOX ONE, PRO, and MASTER control units only.

This unit can be programmed to keep one or more gates open for proper airflow through the dust collector, and to delay shutting off the system (0 to 15 min.).

6. ECOGATE® SET EG001B

Complete set for four 4" workstations (control unit greenBOX, four 4" gates, four sensors, four 45 ft wires, one remote wired switch, and step-by-step instructions for installation.