

USER GUIDE

Your ECOGATE System works fully automatically. After initially powering up the greenBOX, it will open blast gate #1 and sequentially close all other blast gates.

HOW AUTOMATIC MODE WORKS?

If you switch any workstation ON, the greenBOX will open the appropriate blast gate and switch the dust collector ON. Turning workstations OFF will similarly close the appropriate gates. One gate (the last gate used) will remain open, however, to ensure trouble-free vacuum operation. Upon turning OFF the last operating workstation, the greenBOX will switch the dust collector OFF as well.

FRONT PANEL INDICATORS

If any blast gates (1-8) are open, then the corresponding indicator (1-8) will be ON to reflect this status. During blast gate movement the corresponding LED indicator flashes.

Whether the dust collector is ON or OFF is indicated by the LED marked “Dust collector”. The LED marked “Power” indicates that a power supply is present.

USING THE “REMOTE CONTROL” ROCKER SWITCH

This switch operates blast gate #8 and operates the dust collector in conjunction with a floor sweep or hand-held tools.

MANUAL MODE

Press the “AUTO-MANUAL” button to enter the greenBOX into the MANUAL mode. The “Manual ON” red LED indicator will start flashing. In the manual mode the dust collector is permanently ON.

In manual mode you can control all connected blast gates via the corresponding buttons marked “1-8”. The first press of the button will open the blast gate. The second press of the same button will close the blast gate.

VOLTAGE SELECTOR & FUSE

Under the front cover (at the top of the box on the bottom printed board, under the power terminals) there is a voltage selector. On this selector there is a small window where the selected voltage (115 or 230V) is visible. To select the voltage, use a small flat screwdriver and move the switch so that you see the desired voltage in the small window.

You must also change the fuse – the correct value for 115V is **T0.250 A** (Ø5 x 20 mm), and for 230V the correct value is **T0.125 A**. Both fuses are delivered with the unit.

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FULLY AUTOMATIC DUST COLLECTING SYSTEMS



Short Form User And Installation Guide, Version 4



*Please read **User and Installation Guide** before ECOGATE System installation and operating. You are individually responsible for adhering to all safety regulations and codes (National Electric Code).*

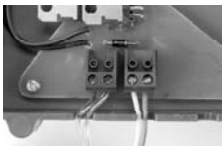
INSTALLATION



1/ Mount the electronic control unit greenBOX on the wall using the provided mounting template (indoor only).

2/ Install blast gates at the workstation outlets and prepare the cable from the blast gates to the greenBOX.

Use the duct as a support for the cable by wrapping the cable around the ductwork between the blast gate and the greenBOX.



Connect the cables at blast gate, but not at the greenBOX end now.

3/ Stick the ECode sensors on the workstation's motor and connect the cable from the sensor to the remaining available blast gate motor header.



4/ Connect the power supply for the greenBOX and the dust collector.

If you have any trouble during the ECOGATE System installation go to the trouble shooting section of the **User and Installation Guide**.

The greenBOX is delivered set to two-phase 230V power supply. If you would like to use greenBOX @ 115V, then you must first set the voltage selector inside the unit to 115V



(see other side of this brochure) and change the fuse to T0.250A.

The terminals for connecting power are under the front panel.

The left stud bushing and left screw terminal is for power input, and the right stud bushing and terminal is for the dust collector.

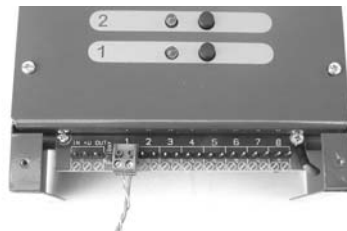
WIRES DESCRIPTION FROM LEFT TO RIGHT

2-phase 230V: GROUND (green), PHASE 1 (black), PHASE 2 (white), for dust collector **2 HP max.**

1-phase 115V: GROUND (green), LIVE (black), NEUTRAL (white), for dust collector **1HP max.**

Remove the small cover from the bottom of the greenBOX.

There is a 3-pin terminal for the remote switch and a 16-pin terminal for the eight cables from blast gates marked 1 to 8.



channel 1 header. Switch the power ON for the greenBOX; it will open blast gate #1 and sequentially close all other blast gates.

5/ Connect only the first blast gate and the sensor to the

Blast gate testing

Press the AUTO-MANUAL MODE button. The red LED will start flashing and the dust collector will start. Press the # "1" button. The blast gate should have run from the open to the closed position. Press the # "1" button again, in order to re-open the blast gate.

Sensor level testing

Make sure that greenBOX remains in the MANUAL MODE. Start workstation # "1". Between the 3-pin terminal and the 16-pin terminal there is a green LED indicator. If the signal from the sensor is of sufficient strength, this indicator will be lit. If it is not, then try to find a place on the workstation where the vibrations are stronger and/or try to make a better connection between the two Velcro™ parts.

Test channel in automatic mode

Select automatic mode and start workstation #1. After approximately 1-2 seconds the greenBOX will start the vacuum system. Then switch off the workstation and the greenBOX will power down the vacuum.

Test other channels

Test all remaining blast gates and sensors using channel one on the greenBOX. Once all the blast gates and sensors are individually tested, physically connect all the terminals together using the small side grooves on the sides of the terminals. Attach the connected terminals to the headers. Test the whole system.

Now the greenBOX unit will remain permanently ON and your blast gate system will work fully automatically.