

Make the switch to a Serio-US_®LOCK—

Cut TONS of GHG

by eliminating truck idling time



Old Locking Method

- Driver leaves truck idling to get out twice— once to unlock and again to relock the dumpster.
- Up to 6** minutes of needless idling at each stop— 5.2 hours per dumpster per year!

GHG per 1,000 dumpsters	49.48 TONS
Needless GHG per CITY	383 TONS





Total GHG that can be eliminated in every major U.S. city every year!



New Locking Method

with Serio-US, Lock!

- The Serio-US Automatic Lock opens automatically so the driver does not have to exit the truck.
- Completely eliminated needless idling.

GHG per 1,000 dumpsters	o TONS
Needless GHG per CITY	0 TONS

GHG Elimination

Carbon Dioxide (CO2)

98,960 lbs reduction per 1000 dumpsters per year

371 tons reduction per city per year (avg. 7500 padlocked dumpsters)*

Nitrogen Oxides (NOx)

1626.43 lbs reduction per 1000 dumpsters per year 6.1 tons reduction per city per year (avg. 7500 padlocked dumpsters)*

Carbon Monoxide (CO)

1080.09 lbs reduction per 1000 dumpsters per year 4.1 tons reduction per city per year (avg. 7500 padlocked dumpsters)*

Particulate Matter (PM)

38.7136 lbs reduction per 1000 dumpsters per year 0.15 tons reduction per city per year (avg. 7500 padlocked dumpsters)*

Hydrocarbons (HC)

389.427 lbs reduction per 1000 dumpsters per year

1.46 tons reduction per city per year (avg. 7500 padlocked dumpsters)*

Volatile Organic Compounds (VOC)

143.744 lbs reduction per 1000 dumpsters per year

0.54 tons reduction per city per year (avg. 7500 padlocked dumpsters)*

TOTAL GHG REDUCTION

102,238 lbs reduction per 1000 dumpsters per year

383 tons reduction per city per year (avg. 7500 padlocked dumpsters)*

Sources: Emission Facts (EPA 4/98); Draft Analysis of Heavy-Duty Diesel Vehicle Idle Emission Rates (EPA 110/03); Guidance for Quantifying and Using Long Duration Truck Idling Emission Reductions in State Implementation Plans and Transportation Conformity (EPA 1/04); Draft User's Guide to Part 5: A Program for Calculating Particle Emissions from Motor Vehicles (EPA); James A. Calcago, III, Evaluation of Heavy-Duty Diesel Vehicle Emissions During Cold-Start and Steady-State Idling Conditions and Reduction of Emissions from a Truck-Stop Electrification Program (Dissertation, December 2005).

* Based on Serio-US Lock experience in each major city (100k+ population) there are 10 haulers with 50-1,000 padlocked dumpsters providing a range of 5.000-10,000 dumpsters, and an average of 7,500.

** Based on informal polling by Serio-US Lock over 18 years.





