



## **FUEL ENHANCER**

June 2009

# **NEW Eco Systems - ECO-5 and ECO-7 for Natural and Propane Gas Applications**

## **Successful Trials**

Emissions Technology of Tulsa, Oklahoma is proud to announce the completion of trials on boilers, burners, and natural gas fired combustion engines.

## **ECO Systems for Natural and Propane Gas Engines**

The ECO-5 is available in two models now for Fuel Lines - 1/2" and 3/4".

The ECO-7 fits a 2" gas line. They are suitable for boilers and burners found in many larger buildings, and in diverse commercial applications. They are also suitable for natural gas engines, including pumps.

## **Additional Sizes Available**

4" and 6" units are being developed and available soon

## **Proven Savings**

The trial data is conclusive. Conducted by 3rd party research teams, they have demonstrated a 2% reduction in natural gas consumption in diverse applications including fixed engines and burners.

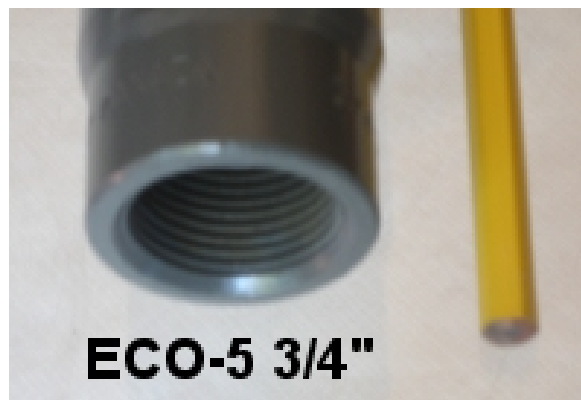
## ECO-5 units



## Existing ECO-5 for 1/2" fittings



## NEW ECO-5 for 3/4" fittings



## NEW ECO-5 for 3/4" fittings

## NEW ECO-7 fits 2" gas line



## NEW ECO-7 Side and End view



## ECO-7 on a Natural Gas Fired Cummins Irrigation Pump Engine



**Irrigation Pump Engine installed  
with the NEW 2" ECO-7 using Natural Gas**



## 2% Natural Gas Savings

VIII. CALCULATED PERFORMANCE DATA			FOUND	TUNED	DIFF.	% CHANGE
a.	STANDING WATER LEVEL	Feet	364.00	364.00		
b.	RUNNING DIST to WATER	Feet	387.00	387.00		
c.	DRAW DOWN	Feet	23.00	23.00		
d.	SURFACE LIFT	WELL Feet	0.99	0.99		
e.	SURFACE LIFT	BOOSTER Feet				
f.	TOTAL HEAD	Feet	387.99	387.99		
g.	FLOW RATE	G P M	785.40	785.40		
h.	WATER HORSEPOWER		76.95	76.95		
i.	SPECIFIC YIELD	G P M Ft	34.15	34.15		
j.	GAS INPUT	Cu Ft/Hr	1469.39	1440.00	-29.39	
k.	GAS INPUT	Th/Hr	15.16	14.86	-0.30	
l.	ENERGY INPUT	Th/24 Hrs	363.94	356.66	-7.28	
m.	ACRE FEET in 24 HRS		3.47	3.47		
n.	THERMS per ACRE FT		104.85	102.75	-2.10	-2%
o.	THERMS per ACRE FT per 100 FT LIFT		27.02	26.48	-0.54	-2%
p.	COST PER THERM		\$0.49000	\$0.49000		-0.02
q.	COST PER HOUR		\$7.43	\$7.28	-0.15	-2%
r.	COST per ACRE FT		\$51.38	\$50.35	-1.03	-2%
s.	COST per ACRE FT per 100 FT LIFT		\$13.24	\$12.98	-0.26	-2%
t.	INPUT HORSEPOWER		178.40	174.83	-3.57	
u.	EST. PUMP EFFIC	Direct Drive				
v.	EST. PUMP EFFIC	Rt. Angle Dr.	41%	42%	0.01	
w.	EST RANGE LOW	95% Est Pump Eff	39%	40%		
x.	EST RANGE HIGH	105% Est Pump Eff	43%	44%		