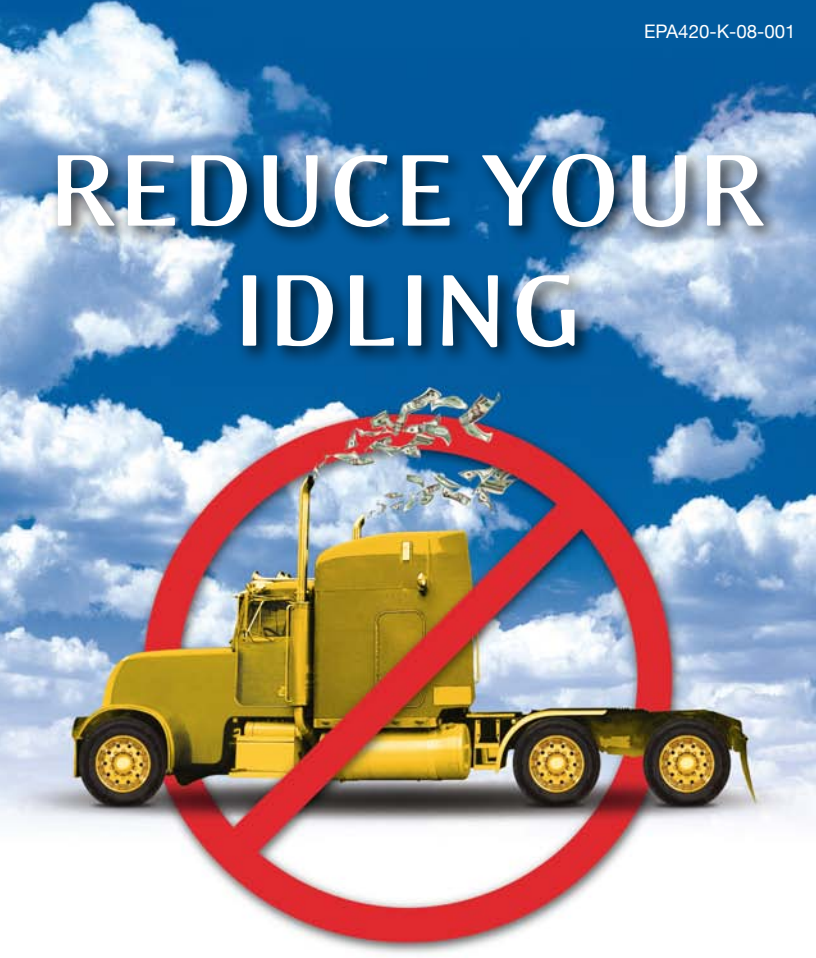
EPA420-K-08-001

REDUCE YOUR IDLING



Go The SmartWay To Save Money And Stay Healthy

Owner Operators/Truckers

www.epa.gov/smartway

SmartWay Transport Partnership
U.S. Environmental Protection Agency

Attention All Drivers:

Idling May Be Harmful To Your Health

University Study Proves Air Pollutants from Idling Exhaust Can Enter Your Truck Cab

The University of Tennessee performed a study that found harmful air pollutants entered the truck cab while the truck idled for long periods of time. Typically, trucks park and idle alongside other trucks during mandated rest periods. In this situation, the amount of pollution entering the truck cab can be hazardous to your health.

In fact, according to this study some trucks showed in-cab concentrations of harmful pollutants that were higher than the outside air. Why? Because once the air gets into the truck cab it stays there and accumulates more harmful pollutants. If a truck driver is sleeping in the truck cab, he or she is breathing that unhealthy air for their entire rest period.

Sleeping in the cab while idling is not good for your health. Here is what you can do to change the picture:

- Equip your truck with idle reduction technologies for your cab comfort needs.
- Participate in the Truck Stop Events National Health Tour where you will learn about various health problems that many truckers face today. Visit their website for tour dates and locations at www.truckstopevents.com
- Read on for more information about idle reduction technologies and the types of financing available. Financing options may be found at www.SmartwayFinanceCenter.com

Appealing Idle Reduction Technologies

The following pages include companies that are Affiliates in the U.S. Environmental Protection Agency's SmartWay Transport Partnership, a voluntary, public-private partnership that assists the trucking industry with conserving fuel and reducing emissions. *This list is for informational purposes only. The EPA may not endorse the products or services of commercial companies.*

Auxiliary Power Units and Generator Sets .....pages 4 – 5

Battery Systems .....pages 6 – 7

Fuel Operated Heaters .....page 8

Thermal Storage Systems .....page 9

To learn about more technologies not included in this list go to: **http://www.epa.gov/otaq/smartway/idlingtechnologies.htm**

Auxiliary Power Units & Generator Sets

Company/ Model/Tel#	Diesel Engine	Electrical Output	Heats Truck Eng. Coolant	Air Conditioning Output (Btu/hr)	Heater Output (Btu/hr)	W x L x H (inches) Weight (lbs)	Retail Cost
Black Rock Systems LLC; "BLACKROCK® APU; BLACKROCK EVOLUTION™; (800) 731-5791	2-or 3-cylinder YANMAR diesel water-cooled engine	3.7-5.2-6.0 kW/ 30-40-50 amps/ 2 household receptacles on 2-cylinder model	AC powered block heater (all models)	26,000 Btus (all models)	26,000 Btus (all models)	29.5' x 30" x 28.5 2 cyl Weight: 425 lbs 3 cyl Weight: 480 lbs HVAC Weight: 30 lbs 24.5" x 31" x 27.5" 2 cyl Weight: 410 lbs HVAC Weight: 30 lbs	$8,700 - $9,600 installed (Warranty: 2 ys/4,000 hours)
Carrier-Transicold, "ComfortPro"; 706-357-7223	2 cyl Kubota (incl. hybrid diesel electric technology); shore power capable	4 kW; 60 amp @ 12-14 volts DC; 13.9 hp	Yes, heating lines	10,000	5,000 or 10,000	APU: 18.5" x 28.5" x 25"; 375 lbs Climate Control Unit: 15" x 12.5" x 28"; 85 lbs	$8,000-$9,000 (warranty 4,000 hrs/ 2 years
Idle-Kleen Inc., "Hitchhiker 5000S", 519-568-7712	1 cyl air cooled; shore power capable	5,000 watt; 10 hp; 12v, 25amp	Yes	10,000 or 14,000	2 or 2.5 kW	27" x 27" x 18"; 285 (dry)	$6,950
Pony Pack, Inc., "PP 200", 505-243-1381	2 cyl Kubota	10.8 hp; 110 amp alternator	Yes	Uses truck HVAC	Uses truck HVAC	26" x 26" x 24"; 300 lbs	$7,000 (warranty 2,000 hrs/2 years)
RigMaster Power Corp, 800-249-6222	8.7kw/11.5bhp, liquid cooled, diesel engine Perkins or Caterpillar	60 amp DC 12V; 6kW 40Amp @ 120V, 60Hz AC	AC powered block heater	20,000		Main Unit: 27" x 29" x 30", 431 lbs; Bunk Heater/AC Unit: 14" x 9.25" x 9.25", 27 lb	$7075-7550. + installation Warranty 2 year/ 4000 hours
Star Class, Inc, "GEN STAR 4500 or 6000", 800-422-2865	3 or 4cyl Perkins or Lombardino	35-45 amp	Yes	10,000-13,500	5,200-7,600	20" x 28" x 24"; 275-335 lbs	$5,900-$6,500 (warranty 2/3 yr)
Thermo King (Ingersol Rand), "TriPac", 952-887-2200	2 cyl	65-120 amp, 12 VDC to 120 VAC inverters	Yes	13,000-13,600	7,500	22" x 24" x 28"; 430 lbs	$8,500-$9,500
Tridako Energy Systems, "PowerCube", 308-762-3235	2 cyl Kubota 2 cyl Caterpillar	60 amp DC; 6,000 watt	AC power for block heater	24,000	30,000	Main Unit: 24" x 30" x 23.5"; 500 lbs Bunk Heater/AC Unit 18.75" x 17.25" x 9" 47 lbs	$7,499 (warranty 2,000 hrs.)

Company/ Model/Tel #	Battery	Air Conditioning Output (Btu/hr)	Heater Output (Btu/hr)	W x L x H (inches) Weight (lbs)	Retail Cost
Autotherm Division Enthal System, "T-2500 Energy Recovery System", 847-726-1717	Uses truck's battery to power vehicle heater pump which circulates hot engine coolant through vehicle cab's heating system (max 3-4 hrs)2-or 3-cylinder YANMAR diesel water-cooled engine	No it does not air condition but it does ventilate the cab.	Same as when vehicle is running.	3.75' x 2.5" x 2'; 5 lbs	$550 - $710 (warranty 2 yrs)
Bergstrom, Inc., "NITE", 866-204-8570	4 batteries; 12 volts DC, 400-405 watts (max 8-10 hr w/ 4-6 recharge time)	3,600	3,930-7,860 (Espar Heater option)	AC: 16" x 22" x 11" Heater: 5.1" x 12.7" x 4.8"; Battery: 29" x 10.5" x 11.5"; 380 lbs	$3,495 (battery 2-yr life)
DC Power Solutions, "Auxiliary Power System", 905-315-8819	440 AH capacity; 12 or 24 volt systems; 1000 watt (higher output available) inverter/ charger; shore power capable (max 8-10 hrs cooling)	6,000 to 12,000	Fuel operated heater option	Auxiliary Power only: 15.6" x 22" x 6";315 lbs AC rooftop only: 41" x 10.4" x 29.1"; 126 lbs AC split unit only: 28" x 25.79" x 10.24" ; 137 lbs	AC only: $3,160 - $4,500 Total system: $6,500 to $7,500
Driver Comfort System, 479-409-4651	6-8 batteries; 3,000 watt inverter/charger; 270 amp alternator; shore power capable	9,000 (optional 15,000 package)	9,000 (Espar Heater) (optional 15,000 package)	26"X28"X12"; 475 lbs	$7,355 (bulk discount rates also); AC only $5,975-$6,780 (bulk discount rates)
Glacier Bay, "ClimaCab", 510-437-9100	4 deep cycle absorbed glass mat batteries	8,000	3,500 (fuel operated heater option)	4 products ranging in size w/ largest at 15" x 26" x 13.5"; 193 plus batteries (4 = 300)	$6995
Sun Power Technologies, 4 products, 800-876-6117	4 absorbed glass mat batteries; shore power capable	10,000-16,000	Need to purchase heater separately	Battery: 19" x 18" x 26" AC units: (avg) 15" x 29" x 20" 361-420 lbs	$5,900-$6,900 (2 yr warranty)

Fuel Operated Heaters

Company/ Model/Tel #	Diesel Engine	Electrical Output	Heats Truck Eng. Coolant	Air Conditioning Output (Btu/hr)	Heater Output (Btu/hr)	W x L x H (inches) Weight (lbs)	Retail Cost
Espar Heating Systems, 6 products, 800-387-4800	N/A	N/A	Yes, depends on model	N/A	7,500-13,600	Varies, but typically 12" x 5" x 5"; 7-14 lbs	$1,374-$2,600
Teleflex Power Systems, "Proheat Air", 604-270-6899	N/A	N/A	ProHeat X45 for trucks; Proheat M Series for buses and coaches	N/A	Air Heater: 6,900 X45: 45,000 M: 80,000	Air Heater: 4.75" x 14" x 6"; 7-11 lbs X45: 11" x 20" x 11"; 40 lbs M Series: 9.5" x 24" x 9.5"; 53 lbs	Air Heater: $1,395 X45: $1,975 M Series: $2,925
Webasto Product North America, 6 products, 800-432-8371	N/A	N/A	Yes, depends on model	N/A	7,000-17,200	3-15 lbs	

Thermal Storage System

Company/ Model/Tel #	Diesel Engine	Electrical Output	Heats Truck Eng. Coolant	Air Conditioning Output (Btu/hr)	Heater Output (Btu/hr)	W x L x H (inches) Weight (lbs)	Retail Cost
Webasto Product North America, 6 products, 800-215-7010	Uses cold storage technology	N/A	N/A	17,000	N/A		

Note: The EPA may not endorse the products or services of commercial companies. Any reference to a specific commercial product or service by trade name, trademark, manufacturer, company, or otherwise does not constitute or imply the endorsement or recommendation of the U.S. Environmental Protection Agency.

Financing Options

Need help buying an Idle Reduction Technology?

Getting a competitive load for Fuel Saving Technologies or a Clean Truck is just a click away. EPA's Smartway Transport Partnership has developed a new web-based finance clearinghouse where buyers of fuel saving technologies and clean trucks can submit one application and have lenders compete for their business. The application is free, simple and fast. Once you submit your application, lenders send you their offers. You pick the best offer for you.

- **Simple Application**
- **Competitive rates from lenders**
- **Fast online decisions**

Get started today
SmartwayFinanceCenter.com

Reduce Your Idling

Go The SmartWay To Save Money And Stay Healthy

SmartWay recommended idle - reduction technologies save you money on fuel and ensure you comply with state and local idling laws.

To find out more about the SmartWay Transport Partnership and idling reduction technologies, visit www.epa.gov/smartway or call (734) 214-4767.

SmartWay™
Transport Partnership
U.S. Environmental Protection Agency