



METHANE EXHAUSTER

Safety for miners.  
Increased production.  
Added income stream.

# Methane Gas Exhauster

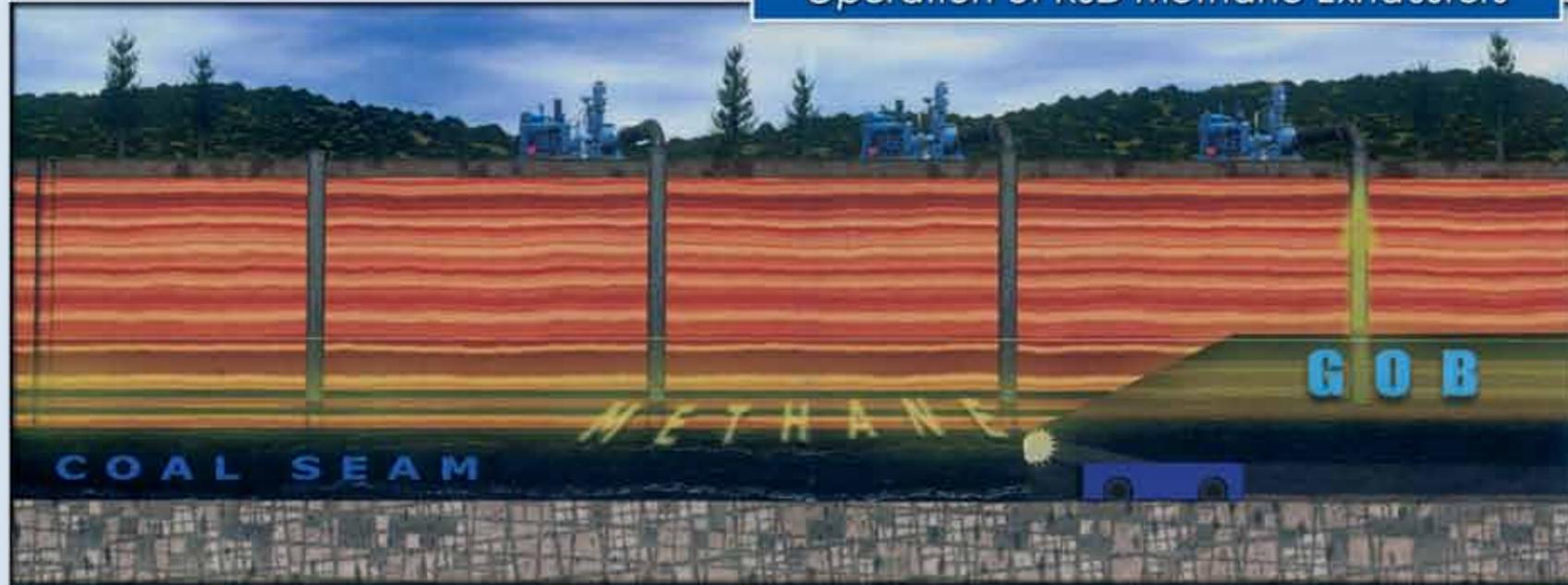
KSD Enterprises, LLC



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### GOB Application

The most common use of the Methane Exhauster is on the "gob" of longwall mining. Methane liberation in the mine can result in high methane concentration in the "gob area". When the roof collapses behind the longwall face large quantities of gas are released. The KSD Methane Exhauster removes large quantities of this gas before it reaches other areas of the mine.

In the process of removal of the methane, a bore hole is drilled within about 50 feet of the coal seam and a perforated pipe is inserted. The KSD Methane Exhauster is connected to the top of the pipe. The engine is started using barbeque grill gas, and a clutch is engaged to rotate the pump. In about 30 seconds, you can turn off the propane and turn on the fuel from the extracting methane stream.

A KSD Exhauster is a simple, self-contained machine that pumps gas. The prime mover is an Internal Combustion engine. The fuel to drive the pump is a small portion of the mine gas that is being pumped from the mine.

KSD Exhausters are available in many configurations. KSD Enterprises, LLC, manufactures and supports the KSD Exhauster and works with the user to provide the features that are needed for the operation.

Installation of the KSD Exhauster is simple. An Exhauster can be removed from operation at one location and put back into operation at another location in less than one day.

### Non-U.S. Based Customers?

Through our affiliates, we have the capability to transport and finance Methane Exhauster installations to any part of the world.

### KSD Exhauster Advantages

- ▶ Simple
- ▶ Inexpensive
- ▶ Self-Fueled
- ▶ No Electrical Costs
- ▶ Free Fuel
- ▶ Easy to Maintain
- ▶ Portable
- ▶ Full Support

Simpler equipment means fewer problems.

KSD Methane Exhausters have been proven in the field in more than 300 applications!

KSD developed the technology that works!

### Coal Mine Applications

#### KSD Exhausters:

- Remove Methane Gas from Longwall GOBs
- Assist in Pre-mining Degas Projects
- Work in Sealed Mine Areas
- Work in Abandoned Mines
- Can Evaluate Gas Reservoirs

***There have been more than 300 KSD exhausters employed in removing gas from longwall gob areas.***

### Specifications

#### KSD Builds Machines to Meet your Needs.

Fuel: Low quality gas with 30% to 100% Methane  
 Flow Rates: As you require - TELL US!  
 Suction Pressures: - As you require - TELL US!

#### Popular Size Exhausters

Typical Smaller Exhauster Performance  
 Flow Rate: 1200 CFM [72,000 CFH] [1.8 MMCFD]  
 Suction Pressure: To 5" HG

Typical Larger Exhauster Performance  
 Flow Rate: 3500 CFM [210,000 CFH] [5 MMCFD]  
 Suction Pressure: To 15" HG





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