

CBA's Mobile Injection Treatment Unit Model: MITU-12

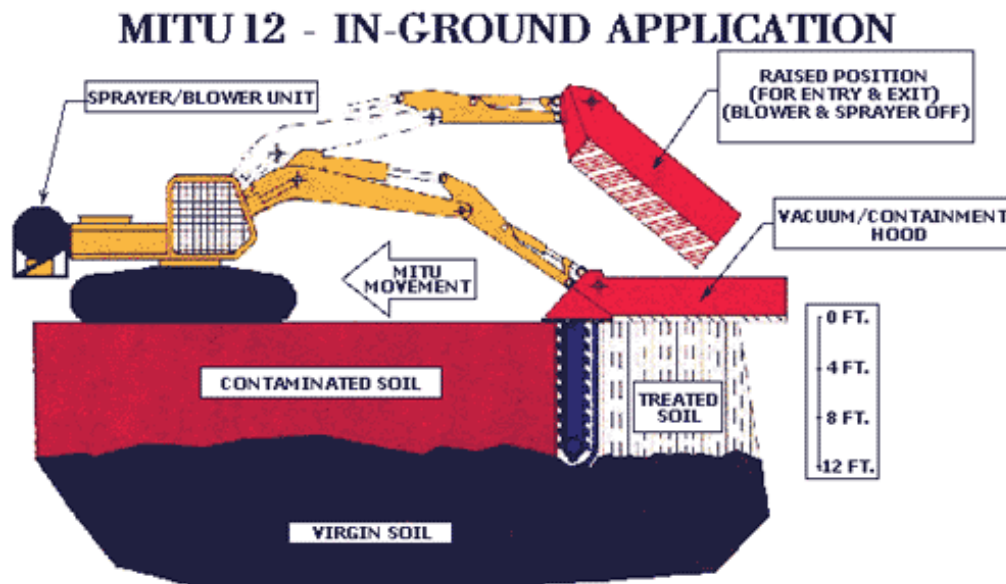


- Adaptable to any standard 45,000 to 70,000 lb excavator
- Easily transported, setup, and operated
- In-Situ or Ex-Situ applications
- On-Board vapor recovery and treatment
- Exempt from most air quality permitting

The Mobile Injection Treatment Unit Technology has been patented and successfully operated by CBA since 1993. The patented technology consists of an auxiliary power unit and a modified trenching head which are connected to standard excavators.

The MITU-12 is capable of treating organic and inorganic contaminated soils either in-situ or ex-situ. The MITU utilizes trenching action along with heat and various other reagents to remediate contaminated soils. The trenching action of the MITU allows superior soil/reagent blending and soil density breakdown in all soil types.

Model MITU-12 Specifications



Excavator

Standard John Deere® Model 690, 45,000 lb hydraulic excavator. The MITU attachments are adaptable to various excavator brands and models.

Approximate Weight

Trenching Head: 5,000 lbs.

Power Unit: 3,100 lbs.

*Total: 53,100 lbs.

(*mounted on John Deere® 690)

MITU Power Unit

A John Deere® 4 cylinder, 110 hp diesel engine is used to power a Commercial 3-state hydraulic pump. The trenching head, vapor collection system, and a liquid injection pump are all powered by separate stages of the hydraulic pump. All components are mounted on a skid assembly attached to the rear of the excavator.

MITU Trenching Head

Vermeer® VH-1850 trencher is Hydrostatically driven by a Poclain motor operating at a maximum pressure of 2500 psi. The cutting chain has been modified to fit a 12 ft. reinforced boom designed and manufactured by CBA. The optimum cutting depth is 10 ft. at a width of 12 inches.

Hood Assembly

The hood assembly is constructed of a solid steel frame with a sheet metal exterior. The hood assembly serves as a vapor collection unit as it is subjected to negative pressure. The hood assembly also houses electric heating elements as a source of heat/hot air.

Vapor Treatment

Vapors are typically transferred to an activated carbon filter assembly, mounted on the MITU Power Unit, at flow rates between 100 cfm to 300 cfm. Vapors can also be transferred to a separate thermal/catalytic oxidizing unit for treatment.

Heat Generation

The exhaust from both the excavator and MITU Power Unit engines is captured and delivered beneath the hood assembly at an approximate temperature of 120° F. Forced air at a rate of 100 cfm to 300 cfm is also delivered beneath the hood through a Wellman Thermal® heat exchanging unit. The heat exchanging unit adjusts the ambient air temperature approximately 600° F to 800° F. The heating unit and associated blower are powered by a separate 50KW generator.

[< Back to MITU main page.](#)

© 2001, CBA Environmental Services, Inc.