

# MBW VAPOR EXTRACTION UNIT

**INTRODUCTION:** Determining the location of a leak in an underground gas line has long posed difficult problems for gas line emergency repair crews. Although the leaking gas line itself is easily located, the saturation of the soil with gas from the leak makes it difficult to pinpoint the actual location of the leak. As a result, it has not been uncommon for large stretches of a surface, including paved roadways, to have to be excavated in a somewhat random fashion to locate the actual site of the leak. This, of course, is costly and time-consuming. In addition, the continuous leaking gas creates a greater hazard the longer the leak continues.

**HISTORY:** The concept of the V.E.U. was developed by Atmos Energy. Their challenge was to remove residual gas quickly and safely, while monitoring the percent of gas in the moving air.

**SOLUTION:** Integral LEL monitor alarms the operator when dangerous gas concentrations are approached. A bypass valve then allows the operator to configure the V.E.U. as necessary.

**HOW THE V.E.U. TRAVELS:** Truck mounted units are used in the metroplex. Trailer mounted units are used in non-metro areas and are designed to be mobile from district to district.

**SUCCESS:** The V.E.U. was so successful at removing residual gas that different applications and avenues were quickly explored.

**APPLICATIONS:** Current applications include the pinpointing of leaks on cast iron pipes and residual gas remediation. Some use the V.E.U. purely for the removal of residual gas to reduce hazardous situations. This allows businesses that may have residual gas in or around the foundation to reopen. Also, the pinpointing of leaks has become a major tool used to prevent the digging of dry holes.



| SPECIFICATIONS                     | VEU               |
|------------------------------------|-------------------|
| Weight                             | 1,430 lb (648 kg) |
| Height                             | 47.5 in (113 cm)  |
| Width                              | 43 in (109 cm)    |
| Length                             | 65 in (165 cm)    |
| Engine                             | 28 hp isuzu 3cb1  |
| Fuel Tank                          | 12 Gallon (45 L)  |
| Blower                             | Tutthill 850 CFM  |
| Recommended Vacuum                 | 10 inHg.          |
| Maximum Vacuum                     | 15 inHg.          |
| Operating Noise Level <sup>1</sup> | 90-100 db         |
| Alarm Threshold                    | 25% LEL           |
| Engine Stop Threshold              | 50% LEL           |

( ) Metric Measurements.  
Specifications subject to change without notice.



## CONTACT INFORMATION

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