OPERATING MANUAL

Vacuum Extractor

ASTM D 2172; AASHTO T 164

INTRODUCTION:

The Vacuum Extractor is an improved design for the quantitative determination of bitumen in hot-mixed paving mixtures and pavement samples. Aggregate obtained by this method may be used for sieve analysis provided quantity of material is sufficient for aggregate topsize used.

NOTE: For complete details of the test method and other apparatus required, the user is referred to ASTM D 2172, Method E or AASHTO T 164, Method E.

The following reagents have been used with the Vacuum Extractor:

1. Methylene Chloride, technical grade (SEE WARNING)
2. Denatured Ethyl Alcohol
3. Biodegradable Solvent

WARNING!

Methylene Chloride and other solvents should be used only under a hood or effective surface exhaust system in a well-ventilated area. The Threshold Limit Concentration Committee of the American Conference of Government Hygienists has established 200 ppm (1977 value) time-weighted average concentration for 8 hour exposure for 5-day week for Methylene Chloride. Inhalation of vapors should be avoided. Vacuum pump exhaust should be vented outside. Drain extract from extractor base daily. Always read and follow supplier recommendations and Material Safety Data Sheet information in regard to all solvents and reagents.

OPERATING INSTRUCTIONS:

NOTE: Refer to ASTM D 2172, Method E or AASHTO T 164, Method E for complete instructions relating to these tests. Sampling of the bituminous paving mixture should be done in accordance with these test procedures, also setting aside a sample for determination of moisture content.

Once the HM-8 is assembled and a dry, tared Filter Paper is placed on the filter support, it is ready to be used in the manner prescribed in ASTM D 2172 or AASHTO T 164.

ACCESSORIES:

- Vacuum Pump (Models available from Gilson).
- Filter Paper. 100 circles, 33cm diameter are provided. Extras may be ordered in packages of 100 as HMA-54.
- Diatomaceous Silica Filter Aid is necessary only for slow-filtering samples. It is available as HMA-56 for a 4lb supply.

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Rev: 04/22/2011

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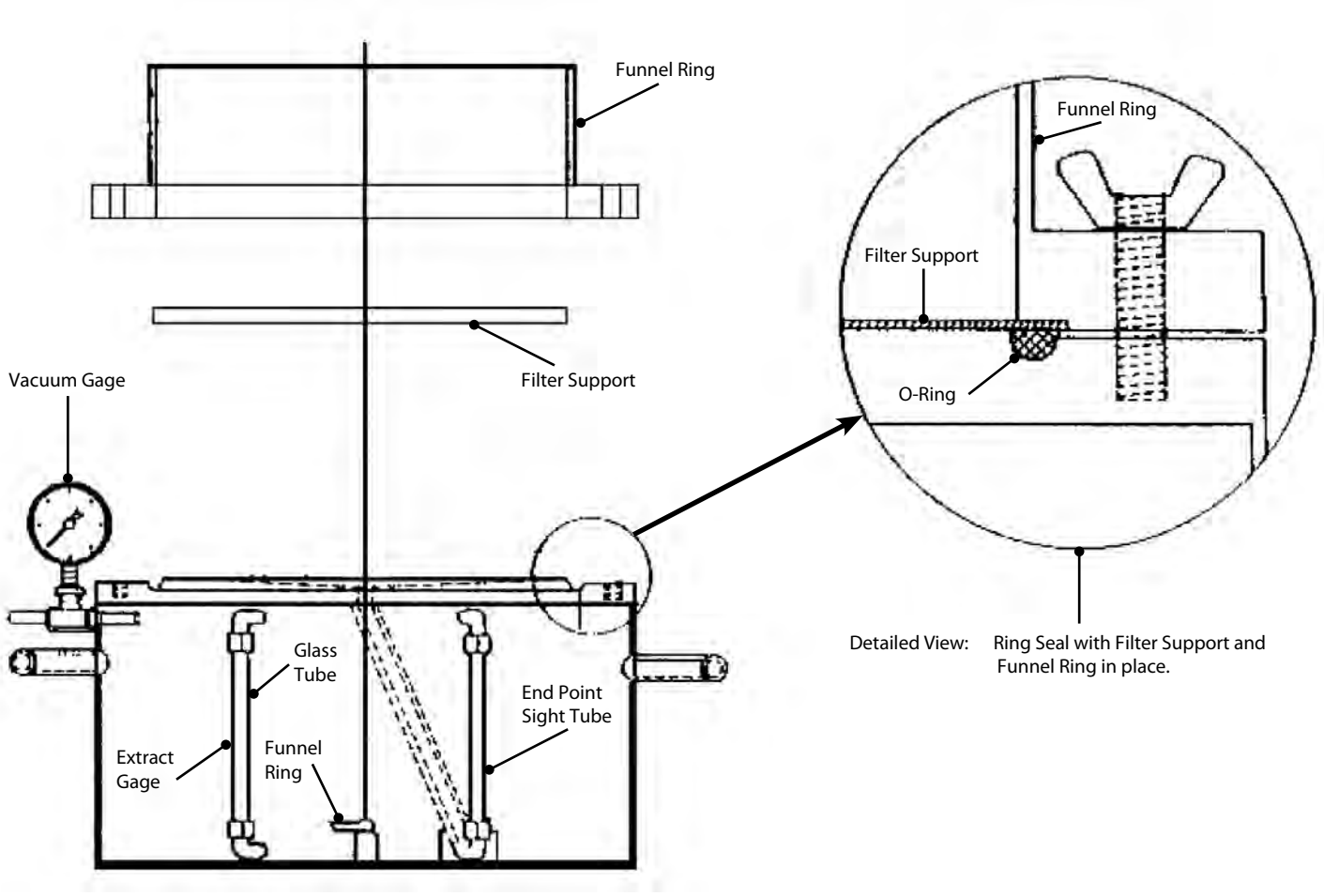
PARTS DIAGRAM:



Parts Diagram