

Evaporative Emissions (VTSBED)

Millbrook's Variable Temperature Sealed Housing for Evaporative Determination facility is designed for evaluation of hydrocarbon permeation from the vehicle or sub systems.

Specification

- 6m L x 2.7m W x 2.5m H (door 2m x 2m)
- Variable "lung" volume design
- Integrated FID hydrocarbon measurement
- HC measurement minute by minute on hot soak
- 15°C to 50°C temperature range controlled to within +/-1°C of temperature profile
- Controls +/-25Pa on heating and cooling
- Extract and HC safety detection system
- Evaporative canister loading to 2g breakthrough with 50% butane, 50% N₂ by volume
- Supported with two 4WD Climatic Emissions Chassis Dynamometer facilities and soak space

Applications

- ECE Regulation 83 Type 4 NEDC evaporative emissions test
- EU 2017/1151 Type 4 NEDC 2 day evaporative emissions test
- EU 2017/1151 (2018/1832) Type 4 WLTP 2 day evaporative emissions test
- China 6 GB 18352-6 evaporative emissions test
- Federal/CARB 2 and 3 day evaporative emissions tests
- Hot soak and diurnal testing
- Development evaporative emissions testing
- Vehicle baking testing
- Canister purging and butane loading
- Canister butane loading stabilisation testing



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