# Vacuum-Box Gas-Bag Sampler

YQ-5111

## Overview

The YQ-5111 uses a negative-pressure vacuum box to collect volatile organic compounds and non-methane hydrocarbons from ambient air and stationary-source emissions. Its high-negative-pressure brushless diaphragm pump is described as suitable for various negative-pressure flues and compatible with gas bags of different sizes.



## Technical specifications

| Parameter | Value |
|---|---|
| Sampling and exhaust flow | approximately 6 L/min |
| Operating temperature | -20 to 50 °C |
| Compatible gas-bag volume | 4 L / 8 L |
| Main-unit dimensions | L160 × W158 × H75 mm |
| Unit weight | approximately 1 kg |

## Technical features

• Imported brushless diaphragm pump with strong load capacity and long service life.
• Negative-pressure vacuum-box gas sampling separates the sample path from the pumping path.
• Inert inlet-path materials reduce contamination and adsorption.
• Automatic gas-bag cleaning without disconnecting the bag tube.
• Interchangeable vacuum boxes of different sizes.
• Can be equipped with a lithium battery for over 6 hours of continuous operation without AC power.

## Standards listed in the brochure

• HJ 604-2017 - Ambient air: total hydrocarbons, methane and non-methane hydrocarbons by direct-injection gas chromatography

## Source and review notes

• The brochure describes the lithium battery as an available option, but does not provide a complete standard or optional accessory list on this page.
• Standard number and title were transcribed from the brochure and current validity has not been independently verified.
• English translation has not received native-speaker technical review.