

# Buck Scientific Total Hydrocarbon Analyzer Model HC-404

*Perfect for EPA methods 418.1 and 413.2*

## Overview

Model HC-404 is a self contained, fixed wavelength infra-red analyzer designed for rapid accurate analysis of total petroleum hydrocarbons in water, soil and sludge samples.

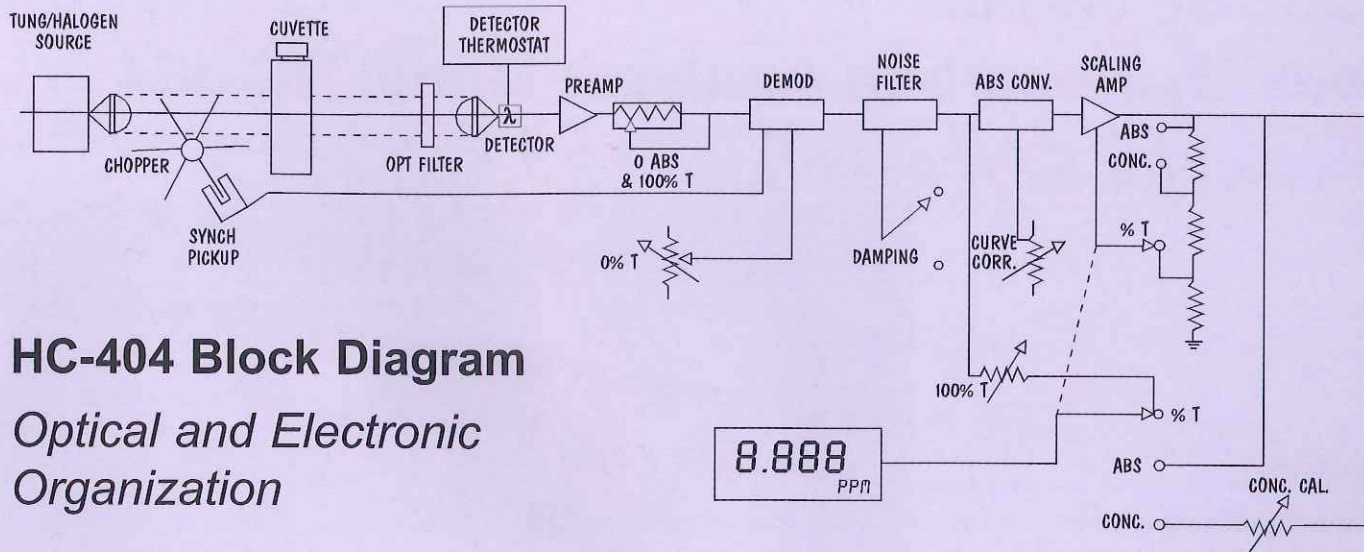


## Features

- Fixed wavelength  $2924\text{cm}^{-1}$  ( $3.42\mu$ ) allows for quick analysis without unnecessary scanning.
- Digital readout in %T and absorbance, or in concentration mode for direct ppm readings.
- Accomodates 10, 50, or 100mm quartz cells for analysis to 1ppm or lower detection levels.
- Built-in scale expansion and extended linear range for high concentration, using a simple 3-step calibration.
- Peltier cooled PbSe detector provides greater than 2500 to 1 signal to noise ratio, resulting in the very best detection levels and excellent instrument stability.
- Small foot print requires minimal lab space.
- Hot quartz halogen source for the highest output possible.
- Instrument simplicity. Intuitive controls allow for immediate operation.

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Scientific

Affordable  
Quality



## HC-404 Block Diagram

### Optical and Electronic Organization

#### Specifications

<b>Wavelength:</b>	Fixed at 2924 $\text{cm}^{-1}$ (3.42 microns) with 30 $\text{cm}^{-1}$ (0.04 microns) Bandwidth	<b>Ranges:</b>	0-100% Transmission; 0-2 Absorbance units; 0-1 and 0-0.1 Concentration
<b>Noise:</b>	Signal to noise ratio: better than 2500:1	<b>Recorder output:</b>	Optional
<b>Drift:</b>	0.01 Abs units/hour	<b>Power requirements:</b>	115V/230V.A.C. 50-60Hz, 80 Watts
<b>Photometric accuracy:</b>	$\pm 1\%$	<b>Weight:</b>	20 lbs.
<b>Response time:</b>	10 seconds in Damping 1 and 40 seconds in Damping 2	<b>Dimensions:</b>	14"W x 11"D x 10"H

#### Typical Applications

*Environmental* - Water and soil quality analysis;  
UST closure testing

*Laboratories* - Screening samples for expected  
organic content prior to analysis

*Oil Sites* - Monitoring discharge of storage tank  
washings

*Industry* - Monitoring waste water discharges

*Automobiles* - Monitoring service station waste  
and water discharge

*Marine Transportation* - Testing bilge and ballast  
discharge

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