

Flame Photometer



Application Fields:



Clinical Medical Testing



Agriculture and Soil Analysis



Food and Beverage Industry

Introduction:

It is an analytical instrument based on the principle of emission spectroscopy. It uses the thermal energy of flame to excite a certain element to emit light to analyze the content of a certain element in a substance. It is widely used in the analysis and determination of agricultural fertilizers, soil, cement, ceramics and silicate industries, as well as pathological research in medical care.

Features:

- \* Compact size, easy operation, stable and reliable.
- \* Equipped with a 7.0-inch color touchscreen with user-friendly interface design for simple and convenient operation.
- \* Features one-touch ignition, backlit buttons, gas leakage alarm, flame-out detection, and automatic gas cutoff function.
- \* Can store up to 20 calibration curve equations and can automatically calculate the correlation coefficient.
- \* With USB communication port
- \* Optional built-in printer and professional data processing software.

Technical Parameters:

| Model                | BK-FP6410B   | BK-FP6430B | BK-FP6431B | BK-FP6432B | BK-FP6440B |
|----------------------|--|------------|------------|------------|------------|
| Test Element         | K/Na   | K/Na/Li    | K/Na/Ca    | K/Na/Ba    | K/Na/Li/Ca |
| Channel Qty.         | 2  | 3          | 3          | 3          | 4          |
| LOD(ppm)             | K  | ≤0.156     | ≤0.156     | ≤0.156     | ≤0.156     |
|                      | Na   | ≤0.184     | ≤0.184     | ≤0.184     | ≤0.184     |
|                      | Li   | /          | ≤0.104     | /          | ≤0.104     |
|                      | Ca   | /          | /          | ≤2.004     | ≤2.004     |
|                      | Ba   | /          | /          | ≤0.549     | /          |
| Linear Error(ppm)    | K  | ≤0.195     | ≤0.195     | ≤0.195     | ≤0.195     |
|                      | Na   | ≤0.69      | ≤0.69      | ≤0.69      | ≤0.69      |
|                      | Li   | /          | ≤0.146     | /          | ≤0.146     |
|                      | Ca   | /          | /          | ≤3.006     | ≤3.006     |
|                      | Ba   | /          | /          | ≤9.064     | /          |
| Test Range(ppm)      | K  | 0.15~100   | 0.15~100   | 0.15~100   | 0.15~100   |
|                      | Na   | 0.18~100   | 0.18~100   | 0.18~100   | 0.18~100   |
|                      | Li   | /          | 0.1~30     | /          | 0.1~30     |
|                      | Ca   | /          | /          | 0.1~1000   | 0.1~1000   |
|                      | Ba   | /          | /          | 0~3000     | /          |
| Response Time        | <8s  |            |            |            |            |
| Sample Uptake        | <4ml/min   |            |            |            |            |
| Stability            | ≤3%(15s), ≤15%(6min)   |            |            |            |            |
| Reproducibility      | 3%   |            |            |            |            |
| Air Compressor       | External   |            |            |            |            |
| Printer              | Optional built-in thermal printer  |            |            |            |            |
| Com                  | USB  |            |            |            |            |
| Fuel                 | LPG  |            |            |            |            |
| Standard Accessories | LPG reducing valve<br>Stainless steel bellows for LPG<br>Silica gel tubing for waste liquid<br>PU tubing for air<br>Air compressor |            |            |            |            |
| Optional Accessories | FP atomizer<br>Built-in thermal printer<br>Software(No charge)   |            |            |            |            |
| Consumption          | 30W  |            |            |            |            |
| Power Supply         | AC 110/220V, 50/60Hz   |            |            |            |            |
| Working Conditions   | Ambient temperature: 10~35℃<br>Relative humidity: ≤85%   |            |            |            |            |
| External Size(W*D*H) | 425*310*437mm  |            |            |            |            |
| Package Size(W*D*H)  | Main unit: 634*364*337mm<br>Air compressor: 350*185*345mm  |            |            |            |            |
| Net Weight           | 10kg   |            |            |            |            |
| Gross Weight         | Main unit: 12kg<br>Air compressor: 5.3kg   |            |            |            |            |