

# Flame Photometers

## Sherwood Model 360 Flame Photometer

Low-cost, single channel, emission flame photometer with analogue output and digital display.

- ◆ Choice of 5 element filters selected by slide; - Na, K, Li, Ca, Ba
- ◆ Modular design reduces footprint and aids dismantling for cleaning
- ◆ Automatic flame optimisation and auto-ignition
- ◆ LCD readout with display hold, LED flame status and element filter selection lamps
- ◆ Safety features include fail-safe flame detection and shut-off, with low air pressure indicator
- ◆ Large working area with spill containment tray
- ◆ Supplied with universal switch-mode power supply and multi-plug
- ◆ Analogue output for recorder

### General Specifications

Model	360
Sensitivity	Minimum concentrations producing a display reading of 100 scale units: Na: 1ppm, K: 0.5ppm, Li: 1ppm, Ca: 20ppm*, Ba: 300ppm*
Minimum detection level at 3x noise	Na, K, Li: 0.1ppm, Ca: 2*, Ba: 20*
Linearity, % value at 50% value	Na, K, Li: $\pm 2\%$ at 3ppm, Ca: $\pm 2\%$ at 100ppm, Ba: $\pm 2\%$ at 1000ppm
Specificity	Na, K, Li interference is $<0.5\%$ value of element under analysis
Reproducibility	$<1.5\%$ (single reading), $<1.0\%$ (20 consecutive readings) from 10ppm K solution set to 1000*
Result display	Manual estimation
Result storage	No
Output	Fixed analogue, 0.2V FSD
Dimensions	mm 300 x 230 x 500
Weight	kg 5.6

\*May not be achievable if fuel gas used is natural gas.

### Services required

Electrical	100-240V 50/60Hz single phase
Air	Moisture and oil free 6 litres/minute at 1kg/cm <sup>2</sup>
Gas	High grade propane, butane or propane/butane mixture. Fuel should be free from heavy hydrocarbon deposits and regulated to 30 p.s.i. at the cylinder. Natural gas at 3" to 10" W.G. is also suitable (please note restrictions above).

### Flame Photometer, Model 360

With Na, K, Li, Ca and Ba filters, fuel and air connections, 1000ppm standard solutions. Requires, but does not include, an air compressor of the correct type and gas regulator. For 100-240V 50/60Hz single phase supplies.

**FH270-25** Model 360

### Accessories

Air compressor for temperate conditions 220-240V 50/60Hz single phase.

**FH319-12** Air compressor

Air compressor for conditions of high temperature and humidity. 184-264V 50/60Hz single phase.

**FH319-18** Air compressor high-temp

**FH324-10** Natural gas regulator

**FH324-12** Propane regulator

**FH324-14** Butane regulator

Additional element filters for Rb, Cs and Sr are available - *details on request.*



FH270-25