

## FLAME PHOTOMETERS

### FLAME PHOTOMETERS, JENWAY, PFP7/PFP7C

Single beam emission flame photometers for routine determination of Na, K and, with accessory filters, Ca, Ba and Li, in industrial and clinical applications.

Features include electronic flame failure detection, fine and coarse sensitivity controls, 3½ digit (12.5mm) LED and recorder output.

Operates on propane, butane, natural gas or L.P.G. supplies.

The model **C40-6050** (PFP7C) is designed specifically for use in clinical applications. The built-in lineariser circuitry enables readings of both sodium and potassium, at normal clinical serum concentrations, to be directly displayed in mmol/l. Serum samples need to be diluted 200:1 or 100:1 prior to presentation to the flame photometer. To enable this to be carried out efficiently a Diluter accessory is available.

#### Technical Data

	<b>C40-6000</b>	<b>C40-6050</b>
Ranges:	0-199.9	120-160mmol/l Na (linearised) 0-10.0mmol/l K
Limits of detection:	Na/K ≤0.2ppm Li ≤0.25ppm Ca ≤15ppm Ba ≤30ppm	- Li ≤0.25ppm Ca ≤15ppm Ba ≤30ppm
Reproducibility:	1% CV for 20 consecutive samples using 10ppm Na set to read 50	
Linearity:	Better than 2% when concentration of 3ppm Na/K and 5ppm Li are set to read 100	
Specificity:	Interference from Na, K, Li equal in concentration to test element will be <0.5%	
Recorder output:	Nominal 1.00V for a reading of 100.0	
Dimensions:	420 x 360 x 300mm	
Weight:	8kg	
Power supply:	90 - 125V or 190 - 250V a.c. single phase	
Gas supply:	Propane, butane or natural gas, (specify regulator when ordering)	
Air supply:	Moisture and oil free, 6 litres/min at 1kg/cm <sup>2</sup>	

Supplied complete with Na and K filters, connecting hoses & clips, compressor plug, drain trap, fuses, mains lead and combined instruction book and service manual.

Requires but does not include a gas regulator and an air compressor.

The instrument will only operate with the correct type of air compressor and gas regulator - please specify requirements at time of order.

**C40-6000** Flame Photometer, PFP7, industrial

**C40-6050** Flame Photometer, PFP7C, clinical



C40-6000

## **Spare Parts and Accessories**

### **Air Compressor**

Providing moisture and oil free air at the correct pressure. For 220 - 240V a.c. single phase supplies.

**C40-6100** Air Compressor

### **Regulators**

**C40-6150** Natural Gas Regulator

**C40-6200** Propane Regulator

**C40-6250** Butane Regulator

### **Filters**

It is recommended that the filters listed below are factory fitted at the time of ordering - please specify.

**C40-6300** Calcium Filter

**C40-6350** Barium Filter

**C40-6400** Lithium Filter

### **Dilutor**

To enable serum samples to be analysed. For 220 - 240V a.c. single phase supplies.

**C40-6700** Dilutor

### **Water Separator**

Recommended when using the Flame Photometer in humid or temperate climates

**C40-6720** Water Separator

### **Industrial Standards**

**C40-6750** Calibration Standard 1000ppm K, 500ml

**C40-6760** Calibration Standard 1000ppm Li, 500ml

**C40-6770** Calibration Standard 3000ppm Ba, 500ml

**C40-6780** Calibration Standard 1000ppm Na, 500ml

**C40-6790** Calibration Standard 1000ppm Ca, 500ml

### **Clinical Standards**

**C40-6800** Calibration Standard 1.00mmol/l Li, 500ml

**C40-6810** Calibration Standard 100mmol/l Na, 100mmol/l K, 500ml

**C40-6820** Calibration Standard 140mmol/l Na, 5mmol/l K, 500ml

**C40-6830** Calibration Standard 120mmol/l Na, 2mmol/l K, 500ml

**C40-6840** Calibration Standard 160mmol/l Na, 8mmol/l K, 500ml

**C40-6850** Calibration Standard 160mmol/l Na, 80mmol/l K, 500ml

**C40-6900** Cleaning Solution, 1 litre

**C40-6920** Dust Cover

**C40-6940** Minor Spares kKt

**C40-6960** Major Spares Kit