



P5615 BOYS GAS CALORIMETER

INTRODUCTION

The P5615 Boys Gas Calorimeter Set supplied by Cussons has been developed, from apparatus designed by the late Sir Charles Boys F.R.S., to provide a simple but accurate method of ascertaining the calorific values of a wide range of gaseous fuels currently in use. As such it is a necessary item of equipment in any thermodynamics laboratory and is applicable to craft and vocational courses in gas engineering and technology.

DESCRIPTION

The two main items of equipment in the apparatus are the Boys non-recording gas calorimeter fitted with appropriate burners in the base, and a precision, Hyde type gas meter with a capacity of 2.0 litres/rev consisting of a specially designed measuring drum housed in a gas-tight casing and sealed with water. The whole set is manufactured to a very high standard and is supplied with all necessary accessories including thermometers with reading lenses, measuring vessels and a general purpose set of four burners for town and coke oven gas, natural and methane gas, butane, propane, acetylene, ethylene and propylene.

PHYSICAL DETAILS

	Nett Weight		Length		Width		Height	
	kg	lb	m	in	m	in	m	in
P5615	27	60	0.6	24	0.5	20	0.55	22

TENDER SPECIFICATION

Boys Gas Calorimeter Set comprising calorimeter, wet type, Hyde pattern precision gas meter fitted with spirit level, point-setting key and height gauge, a constant-head overhead funnel with water collecting tubes, 2 thermometers engraved 0-50°C and 0-75°C for inlet and outlet water temperatures, 2 thermometers engraved 0-50°C (-5 to 105°C for tropical climates) for water temperatures, and 2 thermometers engraved 0-35°C (0-50°C for tropical climates) for ambient temperatures, 2 adjustable reading lenses, a graduated glass vessel 2,400 ml capacity, a graduated glass vessel 50 ml capacity, a gas control valve, a cylindrical metal vessel and a 4 burner set covering town gas and coke oven gas (400-600 BTU/FT³, 14.9-22.3 MW/M³), butane and air/propane mixture (600-900 BTU/FT³, 22.3-33.5 MW/M³), natural gas and methane (900-1200 BTU/FT³, 33.5-44.7 MW/M³) and propane, acetylene, ethylene/propane mixture (1200-3500 BTU/FT³, 44.7-130 MW/M³).

OPTIONAL ACCESSORIES

- P5616 Set of two additional burners for propane (92.5 MJ/m³); blast furnace or low calorific valve gases (3.7MJ/m³)
- P5617 Reducing Valve assembly for use with bottled gas and other high pressure gas supplies.

SERVICES

Water supply and drain. Appropriate gas supply.