



P6310 CALORIMETER SET FOR CALORIFIC VALUE OF FUELS

INTRODUCTION

Cussons P6310 Calorimeter set for Calorific value of fuels has been developed over many years and the classic nature of its design has been accepted, and is widely used in teaching establishments, for the accurate determination of the calorific value of liquid and solid hydrocarbons and

DESCRIPTION

The equipment is self contained with the control unit housed in an instrument case that forms the base. It comprises the calorimeter, a calorimeter vessel, an outer double walled water vessel, electric stirrer gear, combined motor control gear and ignition unit, a Beckman type thermometer, and a charging unit with pressure gauges to facilitate the charging of the calorimeter with oxygen. A P6301 Briquetting Press is available as an optional extra and an additional calorimeter can also be supplied.

The particular features of the bomb are the method of sealing and the method of ensuring ignition. The body of the calorimeter is screwed into the base and a seal is made with a special rubber joint when the two parts are finger-tight only. No spanners are required and in use the rubber joint is protected by water so it may be used over and over again. In order to make ignition 100% sure, great care has been devoted to the method of anchoring the ignition wire and maintaining electrical contact and to the support of the crucible. All these parts are made to a high degree of precision and the results are very satisfactory.

The calorimeter is machined from a solid billet of stainless steel which after completion is tested to a pressure of 310 bar (4500 lb/in²). It meets the Institute of Petroleum Designation IP12/73 Heat of Combustion of Liquid Hydrocarbon Fuels for bomb calorimeters. The calorimeter vessel and outer vessel wall are fabricated from stainless steel and all parts are made to an extremely high manufacturing standard.

TENDER SPECIFICATION

P6310 Calorimeter for testing calorific value of fuels including bomb, calorimeter vessel, double walled outer vessel, electric stirrer gear, ignition control unit, Beckman thermometer, two vitreosil and one nickel crucibles, reel of Nichrome wire and Charging Unit furnished with pressure gauges.

OPTIONAL ACCESSORIES

- P6301 Briquetting Press for use with solid fuels
- P6302 Replacement Calorimeter for use as a spare
- P6304 Beckman Thermometer for use as a spare
- P6309 Replaceable Items Kit

SERVICES

For operation on 220/240 volts 50 or 60 Hz single phase supply. Operation on other voltages to special order.

	Nett Weight		Length		Width		Height	
	kg	lb	m	in	m	in	m	in
P6310	30	66	0.5	20	0.37	15	1.0	38
P6301	2	4	-	-	-	-	-	-
P6302	4	9	-	-	0.10	4	0.25	10