

Data Sheet

Model: BIF17/82-SY

Light Industrial Chamber Furnace



INTRODUCTION

Sylab Scientific Pvt. Ltd., under technical collaboration with Elite Thermal Systems Ltd, UK, manufactures high quality furnaces in India.

Elite Thermal Systems, based in UK, is a 30-year-old furnace manufacturing company with strong brand recognition across the globe.

Sylab Scientific delivers high-quality solutions by leveraging technical expertise and components sourced from Elite Thermal Systems Ltd, UK.

The **BIF17-SY** furnaces are designed for high temperature heat treatment applications for high temperature materials such as precious metals & technical ceramics. BIF17-SY offers chamber capacity ranging from 82 to 227 liters in standard versions. Other chamber capacities/volumes are offered in custom-built models.

BIF17/82-SY chamber furnace has a 82-liter capacity.

SPECIFICATIONS

Maximum Temperature: 1700°C

Maximum Continuous Temperature: 1650°C

Chamber dimensions (mm): 450 x 300 x 610 (H x W x D)

Substantial Molybdenum Disilicide loop elements mounted on 2 chamber sides

Dense refractory front vestibule, chamber floor and part side walls; remainder low thermal mass ceramic fibre materials

Robust rolled hollow section steel framework with folded edge infill panels, all finished in a durable stoved epoxy enamel

Overtemperature protection system included as standard

The furnace is fitted with an electrically operated upward opening door on a parallel link that keeps the hot face away from the operator

B-type thermocouple

ELITE PID controller offering 8 programs with 8 segments each

A small ceramic chimney is fitted as standard



BIF17/82-SY

External Dimensions (mm): 1830 x 1010 x 1000 (H x W x D)
(Indicative)

Supply / Power: 400V– 3 Phase – 24.0 kW

PHASE CONTROL

Phase angle fired thyristor unit in conjunction with a low voltage secondary isolating transformer provides the heating elements with correct operating parameters.

OPTIONS

Multi segment, multi program storage Controllers

Independent monitoring probes

Calibration/furnace surveys

Loading/unloading systems

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